12/31/80 C 8250-1 U

Textile ORGANON

FEATURING MAN-MADE FIBERS

VOL. LI • NO. 12

DECEMBER 1980

MONTHLY REVIEW

CURRENT U.S. MAN-MADE FIBER PRODUCING CAPACITY (MILLION POUNDS PER YEAR) AT 12,029 IS EXPECTED TO INCREASE 5% TO 12,660 BY NOVEMBER 1982. THE LATTER TOTAL WILL BE COMPRISED OF 914 CELLULOSIC FIBERS, 10,115 NON-CELLULOSIC FIBERS AND 1,631 TEXTILE GLASS FIBER. PG 194

A REVIEW OF THE U.S. AND WORLD WOOL SITUATION IS PRESENTED. DATA ARE SHOWN ON PRODUCTION, CONSUMPTION, STOCKS, EXPORTS, IMPORTS, PRICES, ETC. PG 196

NOVEMBER SHIPMENTS DOWN 4%

November deliveries of non-cellulosic fiber (except saran and spandex) at 690.9 million pounds were 4% less than that shipped last month. January-November 1980 shipments of 7,230.6 million pounds were 6½%, or 508.9 million pounds, less than the 7,739.5 million pounds delivered during the January-November 1979 period.

Last month's deliveries of non-cellulosic yarn+monofilaments (except saran and spandex) totaled 331.5 million pounds, 2½% less than the 340.2 million pounds shipped in October and 2½% less than the 340.2 million pounds shipped during the corresponding 1979 month. January-November shipments of 3,460.0 million pounds this year were 8½% behind the 3,784.2 million pounds delivered during the corresponding 1979 period.

November deliveries of non-cellulosic staple+tow+fiberfill totaled 359.4 million pounds, 5½% less than the 381.2 million pounds shipped last month and unchanged from the level of the corresponding 1979 month. Shipments for the first eleven m[illegible] 1980, at 3,770.6 million pounds, were 4½% below the 3,955.3 million pounds shipped during the January-November 1979 period.

Following is a comparison of total November shipments of non-cellulosic yarn+monofilaments (except saran and spandex) with October (million pounds), and the percentage change respectively: nylon industrial 40.2 & 41.9 & -4%, low denier industrial 2.8 & 3.0 & -6½%, carpet 68.8 & 70.7 & -2½%, textile 37.6 & 36.6 & +2½%, polyester industrial 25.1 & 28.2 & -11%, low denier industrial 2.5 & 2.1 & +19%, textile 97.3 & 101.9 & -4½%, olefin 57.2 & 55.8 & +2½% and the total of these fibers 331.5 & 340.2 & -2½%.

For non-cellulosic staple+tow+fiberfill, the corresponding data are: nylon 73.5 & 76.1 & -3½%, acrylic+modacrylic 61.5 & 62.8 & -2%, polyester 213.2 & 230.4 & -7½%, olefin+vinyon 11.2 & 11.9 & -6% and the total 359.4 & 381.2 & -5½%.

Shipments of acetate yarn in November were 21.8 million pounds, down 13% from the 25.0 million pounds shipped in October. For the year to date, acetate yarn deliveries are running 5% below last year.

Rayon staple+tow shipments in the latest month were 37.3 million pounds, 4% below October deliveries of 38.9 million pounds. For

BEST AVAILABLE COPY

the year to date, rayon staple+tow shipments, at 418.3 million pounds, were 17% less than that shipped during the same 1979 period.

STOCKS CONTINUE TO DECLINE

Fiber producers' stocks of non-cellulosic fibers (except saran & spandex) declined to 557.1 million pounds as of November 30th from 572.5 million pounds as of October 31st. With shipments at 690.9 million pounds during November, stocks thus represent a 24-day supply (based on a 30-day month), unchanged from October.

Following is an analysis of fiber supply (based on a 30-day month) on hand at the fiber producing level: nylon yarn 22 days; polyester yarn 28 days; olefin yarn 34 days; nylon staple 13 days; acrylic+modacrylic staple 30 days; polyester staple 22 days and olefin+vinyon staple 46 days.

For the cellulosic fibers, fiber producers' stocks stood at a 24-day (based on a 30-day month) supply for acetate yarn and a 23-day supply for rayon staple.

U.S. MAN-MADE FIBER PRODUCING CAPACITY

Last month, the U.S. man-made fiber producing industry had the capacity to produce 12,029 million pounds of fiber per year. This was a decrease of 1½% from the capacity in place one year ago. The details on recent production and capacity by fiber, as well as projections through November 1982, appear in the table on page 195.

By November 1982 total man-made fiber producing capacity is expected to expand by 5% to 12,660 million pounds annually. Non-cellulosic fiber capacity is expected to increase by 5% over the two-year span, while textile glass fiber capacity is projected to increase by 11%. Cellulosic fiber capacity is expected to increase 5 million pounds, or ½%. The summary by generic fiber group is shown in the table on page 196.

SURVEY COVERAGE & DEFINITIONS

The survey figures shown in the upper section of the page 195 table cover the man-

(Continued on page 196)

CONTENTS

Monthly Review 193
Imports for Consumption 204
Imports by Country of Origin 205

U.S. Man-Made Fiber Capacity 194
Coverage & Definitions 194
Non-Cellulosic Fiber Capacity 196
Average Denier 197

The Wool Situation 197
World Summary 197
U.S. Summary 197
Support Programs 199
The Mohair Situation 200

U.S. Mill Consumption 201
U.S. Textile Fiber Consumption 202
U.S. Imports, Exports & Balance 203

Selected Textile Industry Data 206
Annual Index 207-8

Textile ORGANON

CHARLES A. WHITEHEAD, *EDITOR*
MICHAEL R. KEMP, *ASSOCIATE EDITOR*
DOROTHY A. DRISCOLL, *CIRCULATION MGR.*
PUBLISHED BY
TEXTILE ECONOMICS BUREAU, INC.
489 FIFTH AVE., NEW YORK, N. Y. 10017

An arrangement of authentic market data, especially important to the United States Man-Made Fiber Industry, published monthly in the interest of good business.

Copyright 1980 by Textile Economics Bureau, Inc. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription rates as of January 1979 (payable in U.S. dollars or equivalent, with order):

	U.S.A.	OTHER
Annually	$100.00	$150.00
Single Issues		
June	10.00	15.00
November	10.00	15.00
All Others	8.00	12.00

All U.S. issues will be sent by first class mail and those to all other countries by airmail.

U.S. MAN-MADE FIBER PRODUCTION & PRODUCING CAPACITY

MILLION POUNDS & *Average Denier*

PERIOD	RAYON & ACETATE								NON-CELLULOSIC FIBERS[1]			TEXTILE GLASS TOTAL[3]	GRAND TOTAL MAN-MADE FIBERS		
	FILAMENT YARN-MONOFIL				STAPLE-TOW			TOTAL							
	RAYON	ACETATE[2] LBS	ACETATE[2] *Den*	TOTAL	RAYON	ACETATE[2]	TOTAL		YARN-MONO	STAPLE-TOW	TOTAL		YARN[4]-MONO	STAPLE-TOW	TOTAL
ACTUAL ANNUAL PRODUCTION															
1970	268	463		731	607	35	642	1373	1793	1793	3586	467	2991	2435	5426
1971	304	449		753	612	26	638	1391	2188	2105	4293	468	3409	2743	6152
1972	252	401		653	713	28	741	1394	2773	2583	5356	572	3998	3324	7322
1973	198	437		635	697	25	722	1357	3339	2970	6309	688	4662	3692	8354
1974	172	362		534	645	20	665	1199	3443	2780	6223	683	4660	3445	8105
1975	65	301		366	371	12	383	749	3209	2677	5886	546	4121	3060	7181
1976	68	287		355	475	11	486	841	3306	3320	6626	676	4337	3806	8143
1977	71	282		353	527	8	535	888	3674	3654	7328	787	4814	4189	9003
1978	62	301		363	535	7	542	905	3830	3953	7783	923	5116	4495	9611
1979	57	317		374	549	7	556	930	4155	4282	8437	1014	5543	4838	10381
ACTUAL & PROJECTED CAPACITY, ANNUAL RATE, AS OF —															
NOV 1970[5]	360	494	NA	854	819	40	859	1713	2440	2422	4862	657	3951	3281	7232
NOV 1971[5]	337	490	NA	827	757	30	787	1614	2796	2620	5416	696	4319	3407	7726
NOV 1972[5]	235	486	NA	721	761	30	791	1512	3362	3034	6396	721	4804	3825	8629
NOV 1973[5]	224	473	NA	697	768	28	796	1493	3738	3302	7040	739	5174	4098	9272
NOV 1974[5]	172	449	NA	621	724	28	752	1373	4175	3584	7759	821	5617	4336	9953
NOV 1975[5]	100	384	NA	484	737	18	755	1239	4640	3796	8436	909	6033	4551	10584
NOV 1976[5]	85	399	NA	484	691	18	709	1193	4878	4254	9132	893	6255	4963	11218
NOV 1977[5]	85	315	*89*	400	655	8	663	1063	4974	4394	9368	1002	6376	5057	11433
NOV 1978[5]	83	330	*87*	413	665	8	673	1086	5000	4571	9571	1118	6531	5244	11775
NOV 1979[5]	75	355	*89*	430	671	8	679	1109	5126	4678	9804	1305	6861	5357	12218
NOV 1980[5]	63	324	*88*	387	514	8	522	909	4933	4714	9647	1473	6793	5236	12029
MAY 1981[6]	63	329	*89*	392	514	8	522	914	4943	4763	9706	1511	6846	5285	12131
NOV 1981[6]	63	329	*89*	392	514	8	522	914	5022	4833	9855	1562	6976	5355	12331
MAY 1982[6]	63	329	*89*	392	514	8	522	914	5063	5018	10081	1623	7078	5540	12618
NOV 1982[6]	63	329	*89*	392	514	8	522	914	5095	5020	10115	1631	7118	5542	12660

1. The non-cellulosic fibers included are those listed in the September ORGANON issues each year. Yarn+mono includes olefin film fiber and spunbonded polypropylene. Staple+tow includes fiberfill.

2. The acetate production and producing capacity data include diacetate and triacetate. The acetate staple+tow data do not include the large poundages for cigarette filtration.

3. Textile glass fiber, all types.

4. Grand Total Yarn means the yarn+mono shown **plus** all textile glass fiber.

5. Actual producing capacity as of the date shown.

6. Future producing capacity planned for certain dates as of November 1980.

NON-CELLULOSIC FIBER CAPACITY DETAIL

MILLION POUNDS & *Average Denier*

PERIOD	FILAMENT YARN, MONOFIL & OLEFIN FILM FIBER												STAPLE, TOW & FIBERFILL					NON-CELLULOSIC TOTAL
	NYLON-ARAMID				POLYESTER			OLEFIN[7]			OTHER[9]	TOTAL	NYLON-ARAMID	ACRYL-MOD ACRYL	POLYESTER	OLEFIN-VINYON	TOTAL	
	IND	CARP	TEXTILE		IND	TEXTILE		YARN	MONO[8]	FILM[8]								
NOV 1970[5]	480	428	569	NA	294	316	NA	110	119	106	18	2440	280	659	1370	113	2422	4862
NOV 1971[5]	463	531	522	NA	337	559	NA	89	163	113	19	2796	460	698	1355	107	2620	5416
NOV 1972[5]	469	626	559	NA	364	892	NA	96	177	159	20	3362	602	754	1571	107	3034	6396
NOV 1973[5]	466	707	534	NA	385	1118	NA	106	214	190	18	3738	701	787	1709	105	3302	7040
NOV 1974[5]	483	770	552	NA	403	1351	NA	125	254	221	16	4175	757	824	1899	104	3584	7759
NOV 1975[5]	503	786	553	NA	391	1576	NA	168	313	334	16	4640	827	827	2021	121	3796	8436
NOV 1976[5]	519	787	552	*54*	442	1701	*133*	178	312	371	16	4878	910	869	2355	120	4254	9132
NOV 1977[5]	523	829	558	*55*	443	1698	*126*	173	336	398	16	4974	939	869	2470	116	4394	9368
NOV 1978[5]	510	908	565	*53*	443	1643	*116*	174	347	394	16	5000	1023	865	2554	129	4571	9571
NOV 1979[5]	513	950	579	*51*	443	1699	*114*	172	342	408	20	5126	1020	839	2673	146	4678	9804
NOV 1980[5]	515	910	551	*52*	400	1637	*113*	120	350	430	20	4933	991	830	2759	134	4714	9647
MAY 1981[6]	515	907	554	*51*	404	1610	*111*	138	355	440	20	4943	930	830	2769	234	4763	9706
NOV 1981[6]	522	917	565	*51*	409	1617	*111*	177	355	440	20	5022	950	834	2809	240	4833	9855
MAY 1982[6]	527	932	569	*51*	419	1607	*111*	179	360	450	20	5063	1039	838	2854	287	5018	10081
NOV 1982[6]	531	932	579	*51*	419	1610	*112*	179	375	450	20	5095	1039	840	2854	287	5020	10115

IND means industrial yarn and monofil, i.e., 500 denier & coarser, with an Instron tenacity of 7 grams per denier or more. CARP means bulked continuous filament yarn for carpets. TEXTILE means yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

7. Olefin includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles, film fiber used for decorative or tying ribbon, etc.

8. Olefin monofil includes the circular and rectangular (ribbon) cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated fiber.

9. Other yarn & monofil is chiefly saran and spandex. Aramid data are included with nylon.

CAPACITY (ANNUAL RATES)
(MILLION POUNDS)

GENERIC GROUP	NOVEMBER 1980	NOVEMBER 1982	INCREASE LBS	INCREASE %
Cellulosic	909	914	5	½
Non-Cellulosic	9,647	10,115	468	5
Textile Glass	1,473	1,631	158	11
	12,029	12,660	631	5

(Continued from page 194)

made fibers in all their primary forms, i.e., filament yarn, monofilaments, polypropylene spunbonded and film fiber are tabulated as filament yarn, while staple, tow and fiberfill are tabulated as staple. The glass fiber data cover all primary forms of that fiber (yarn and strand, staple yarn and sliver, roving and cake, chopped and milled fiber and mat) although only an aggregate figure is published to avoid disclosure of individual company data. The "capacity" to produce waste is not included in the survey data.

Capacity is based on the current and projected "mix" of deniers, filament counts, packages, etc. It is emphasized that all figures refer to current and planned capacity. They are not a production forecast.

Under the survey definitions, all productive equipment which is currently, or is projected to be, in operable condition is counted as capacity, regardless of whether it is actually producing fiber at the time the capacity measurement is taken. On the other hand, equipment which is definitely scheduled for scrapping, or which has been scrapped since the last survey, is excluded from the capacity tabulation. Put another way, the capacity data reflect operable, rather than operating, capacity.

NON-CELLULOSIC FIBER CAPACITY

Non-cellulosic fiber capacity is slated for an increase of 468 million pounds over the next two years. Between November 1979 and November 1980, actual capacity in place declined by 157 million pounds. The reasons for the decline are the closures of the IRC polyester yarn plant in Painesville, OH and the Chevron nylon plant in Puerto Rico. Also, the Hercules olefin plant at Covington, VA was destroyed by fire. As of the end of the year, and thus included in the November 1980 capacity numbers, the Fiber Industries nylon plants at Shelby, NC & Greenville, SC and the Texfi polyester plants at Asheboro & New Bern, NC are scheduled to be closed.

Polyester staple capacity is planned to increase by 95 million pounds to a November 1982 total of 2,854 million pounds, whereas filament yarn capacity is projected to decline from a November 1980 figure of 2,037 million pounds to 2,029 million pounds by November 1982. The modest increase in polyester industrial yarn was more than offset by the decline in textile yarn.

In nylon, the capacity increases are aimed mostly at servicing the floor covering market. Capacity for carpet yarn is slated for an increase of 22 million pounds in the next two years, by which time it will amount to 932 million pounds. At the same time capacity for nylon staple, most of which goes into floor coverings, is slated to increase by 48 million pounds, reaching 1,039 million pounds two years hence.

Nylon textile yarn is projected to increase by 28 million pounds over the November 1980 to November 1982 period. Industrial nylon yarn capacity is scheduled to increase slightly (by 16 million pounds or 3%) in the next two years.

At present, nylon 6 represents 31% of total nylon yarn capacity, while for staple the corresponding figure is 34% for an average nylon 6 share of 32%.

Olefin fiber accounts for the majority, some 55%, of the increase in non-cellulosic fiber capacity over the next two-year period.

Olefin yarn+monofil+film fiber capacity is expected to increase by 104 million pounds and reach 1,004 million pounds by November 1982. Olefin+vinyon staple capacity is due to reach 287 million pounds by November 1982, an increase of 153 million pounds or more than double the November 1980 capacity.

AVERAGE DENIER

In polyester textile yarn, there has been a marked trend toward finer deniers. In May 1976, when average denier data were first collected, the average was 139. Thereafter, it declined to 133 in November 1976, to 126 in November 1977, to 114 in November 1979 and to 113 in November of this year. By November 1982, according to the latest projection, the average will be 112 denier.

In nylon textile yarn, the May 1976 average denier was 54 and this figure remained unchanged in November 1976. By November 1978, average denier had dropped to 53, and by November 1979 it was 51. In November 1980 the average denier was 52 and by November 1982 it is projected to be 51.

In acetate yarn, the average deniers were 89 in November 1977, 85 in November 1978, 89 in November 1979 and 88 in November this year. Two years hence, the average denier is expected to be 89.

THE WOOL SITUATION

Our annual review of the U.S. and world wool situation is presented in the following article and tables. Unless otherwise indicated, all data are on a seasonal basis. In Northern Hemisphere countries, the season coincides with the calendar year. In South America, the season runs from October first through September 30th, while in the other Southern Hemisphere countries, e.g., Australia, South Africa and New Zealand, the season extends from July first through June 30th. Seasonal data are identified by the first year of the season concerned, e.g., the Australian season running from July 1, 1979, to June 30, 1980, is referred to as 1979.

From reports of The Commonwealth Secretariat (London), it is estimated that world wool production during the 1980 season (1980-1981) will total 6,087 million pounds (greasy basis) or some 16 million pounds more than the previous season.

The table on page 198 shows the annual production of raw wool on a greasy basis in the principal wool-growing countries of the world from 1965 through the current season. In addition, certain 5-year averages are shown.

At present Australia, Eastern Europe+China and New Zealand account for 64% of world wool production; in 1935-1939 these countries were only 42% of the total. Eastern Europe+China in particular have greatly expanded their shares of world production, going from less than 8% at the beginning of the period to 26% today. The increase in New Zealand's share has been significant, but not as impressive as that of Eastern Europe+China. Australia, still the largest individual producer, also has maintained its share over the period. The most drastic drop in share has occurred in the United States, which at one time accounted for better than 11% of the total but is now down to 2%.

World production data on cotton, scoured wool and the man-made fibers (except olefin and textile glass fiber) from 1973 through 1979 were presented on page 73 of the June 1980 ORGANON issue. Changes in that table for cotton are indicated in the page 157 table of the October ORGANON. In the 1979 season, world wool production represented 5% of the 3-fiber total, with cotton being 48% and the man-made fibers 47%.

U.S. PRODUCTION AND DISAPPEARANCE

It is estimated that U.S. wool production in 1980 will be about 104 million pounds (greasy basis), the same as in the past two years.

Of this year's total, shorn wool output is placed at about 102 million pounds or slightly less than 1979. The balance of 2 million pounds this year will be pulled wool. All domestic production is apparel class. U.S. wool production has been declining steadily for many years. The stabilization in U.S. wool output results from a halt to the continuation of the long-term decline in the sheep population in this country. Thus the 1980 shearing is expected to total 13.0 million head or 3% more than the 12.6 million

WORLD RAW WOOL PRODUCTION BY THE PRINCIPAL PRODUCING COUNTRIES[1]

MILLION POUNDS, GREASY BASIS & *Percent*

YEAR[2]	AUSTRALIA		NEW ZEALAND		SOUTH AFRICA[3]		ARGENTINA		URUGUAY		UNITED STATES		UNITED KINGDOM		TURKEY		E. EUROPE & CHINA[4]		ALL OTHERS[5]		WORLD TOTAL	
	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%
1935-39[6]	1,018	*26.3*	309	*8.0*	263	*6.8*	377	*9.8*	118	*3.1*	439	*11.4*	111	*2.9*	60	*1.5*	293	*7.6*	875	*22.6*	3,863	*100*
1940-44[6]	1,129	*27.4*	344	*8.3*	254	*6.2*	500	*12.1*	137	*3.3*	462	*11.2*	102	*2.5*	68	*1.7*	306	*7.4*	821	*19.9*	4,123	*100*
1945-49[6]	1,023	*26.9*	370	*9.7*	222	*5.8*	452	*11.9*	161	*4.2*	332	*8.7*	85	*2.2*	71	*1.9*	410	*10.8*	684	*17.9*	3,810	*100*
1950-54[6]	1,202	*27.6*	419	*9.6*	272	*6.3*	401	*9.2*	193	*4.4*	289	*6.6*	96	*2.2*	76	*1.7*	667	*15.3*	745	*17.1*	4,360	*100*
1955-59[6]	1,537	*29.5*	513	*9.8*	313	*6.0*	406	*7.8*	184	*3.5*	305	*5.9*	113	*2.2*	90	*1.7*	945	*18.2*	800	*15.4*	5,206	*100*
1960-64[6]	1,713	*30.2*	607	*10.7*	304	*5.4*	413	*7.3*	187	*3.3*	295	*5.2*	127	*2.2*	98	*1.7*	1,132	*20.0*	796	*14.0*	5,672	*100*
1965-69[6]	1,836	*30.7*	717	*12.0*	310	*5.2*	454	*7.6*	181	*3.0*	222	*3.7*	123	*2.1*	100	*1.7*	1,216	*20.3*	817	*13.7*	5,976	*100*
1970-74[6]	1,764	*30.6*	681	*11.8*	246	*4.2*	410	*7.1*	138	*2.4*	169	*2.9*	106	*1.8*	110	*1.9*	1,339	*23.2*	813	*14.1*	5,776	*100*
1975-79[6]	1,570	*26.9*	707	*12.1*	230	*3.9*	387	*6.6*	146	*2.5*	113	*1.9*	106	*1.8*	122	*2.1*	1,486	*25.5*	974	*16.7*	5,841	*100*
1965	1,663	*29.0*	695	*12.1*	329	*5.7*	430	*7.5*	183	*3.2*	241	*4.2*	129	*2.3*	95	*1.7*	1,138	*19.9*	826	*14.4*	5,729	*100*
1966	1,762	*30.1*	709	*12.1*	292	*5.0*	441	*7.5*	178	*3.0*	236	*4.0*	132	*2.3*	97	*1.7*	1,178	*20.1*	828	*14.2*	5,853	*100*
1967	1,770	*29.5*	728	*12.2*	304	*5.1*	494	*8.2*	185	*3.1*	227	*3.8*	128	*2.1*	101	*1.7*	1,239	*20.7*	818	*13.6*	5,994	*100*
1968	1,949	*31.6*	732	*11.9*	313	*5.1*	461	*7.5*	181	*2.9*	211	*3.4*	119	*1.9*	106	*1.7*	1,292	*20.9*	811	*13.1*	6,175	*100*
1969	2,035	*33.2*	723	*11.8*	310	*5.0*	445	*7.3*	176	*2.9*	194	*3.2*	106	*1.7*	103	*1.7*	1,235	*20.1*	804	*13.1*	6,131	*100*
1970	1,964	*32.2*	736	*12.1*	271	*4.4*	441	*7.2*	172	*2.8*	187	*3.1*	101	*1.7*	104	*1.7*	1,303	*21.3*	828	*13.5*	6,107	*100*
1971	1,941	*32.5*	710	*11.9*	258	*4.3*	417	*7.0*	119	*2.0*	181	*3.0*	104	*1.7*	106	*1.8*	1,327	*22.2*	809	*13.6*	5,972	*100*
1972	1,620	*29.1*	681	*12.2*	236	*4.2*	390	*7.0*	132	*2.4*	176	*3.2*	106	*1.9*	110	*2.0*	1,310	*23.6*	799	*14.4*	5,560	*100*
1973	1,545	*28.2*	628	*11.5*	231	*4.2*	397	*7.3*	132	*2.4*	159	*2.9*	108	*2.0*	115	*2.1*	1,343	*24.5*	816	*14.9*	5,474	*100*
1974	1,748	*30.3*	648	*11.2*	238	*4.1*	406	*7.0*	141	*2.5*	143	*2.5*	110	*1.9*	115	*2.0*	1,413	*24.5*	809	*14.0*	5,771	*100*
1975	1,662	*28.8*	688	*11.9*	238	*4.1*	414	*7.2*	152	*2.6*	128	*2.2*	108	*1.9*	117	*2.0*	1,430	*24.8*	837	*14.5*	5,774	*100*
1976	1,550	*27.0*	668	*11.7*	227	*4.0*	388	*6.8*	141	*2.5*	117	*2.0*	106	*1.8*	119	*2.1*	1,435	*25.0*	983	*17.1*	5,734	*100*
1977	1,493	*26.0*	586	*11.9*	234	*4.1*	379	*6.6*	137	*2.4*	110	*1.9*	101	*1.8*	121	*2.1*	1,495	*26.0*	987	*17.2*	5,743	*100*
1978	1,556	*26.5*	708	*12.0*	225	*3.8*	377	*6.4*	139	*2.4*	104	*1.8*	108	*1.8*	126	*2.1*	1,521	*25.9*	1,018	*17.3*	5,882	*100*
1979	1,587	*26.1*	787	*13.0*	227	*3.7*	379	*6.2*	161	*2.7*	104	*1.7*	108	*1.8*	126	*2.1*	1,550	*25.5*	1,042	*17.2*	6,071	*100*
1980[7]	1,512	*24.8*	827	*13.6*	227	*3.7*	366	*6.0*	176	*2.9*	104	*1.7*	112	*1.9*	126	*2.1*	1,578	*25.9*	1,059	*17.4*	6,087	*100*

SOURCES: The Commonwealth Secretariat (London); The Wool Bureau, Inc. (NY); and Textile Economics Bureau, Inc., estimates.

1. Apparel plus carpet class shorn wool, as well as pulled wool and wool on skins, mostly at the shorn equivalent.
2. Calendar years for Northern Hemisphere nations; season beginning July first or October first for Southern Hemisphere countries. See text page 197.
3. Excludes Lesotho and South West Africa.
4. Includes U.S.S.R. & Romania only in 1945 and prior years. For 1946 forward, Albania, Bulgaria, People's Republic of China, Czechoslovakia, East Germany, Hungary, Outer Mongolia & Tibet, Poland and Yugoslavia are also included.
5. Includes China and Eastern European countries, except U.S.S.R. & Romania, in 1945 and prior years.
6. Five-year averages.
7. Preliminary estimates.

head sheared in 1979 which, in turn, was 1% over 1978. The 1980 average fleece weight is placed at 7.87 pounds, down from 8.02 pounds in 1979 and 8.08 pounds in 1978.

The first section of the table on page 199 shows that 1979 U.S. mill consumption of apparel-class raw wool totaled 124.6 million pounds or 3% less than the 1978 figure. Mill consumption of carpet class wool in 1979 was 9.9 million pounds, down 24% from 1978. For 1980, on the basis of nine months' actual figures, it is estimated that U.S. consumption of apparel wool will be about 120.5 million pounds, 3½% less than 1979. Consumption of carpet wool this year is estimated at 9.5 million pounds, 4% below 1979.

These consumption data cover mill consumption of shorn and pulled and other wool of the sheep on the woolen spinning system as well as the production of worsted tops. Additional but small quantities of wool are consumed on the cotton system. Finally, there is a fairly substantial amount of reprocessed and reused wool used; most of this goes into non-carpet applications.

The second and third sections of the page 199 table show the wool content of U.S. imports and exports of semimanufactured and manufactured products. The line labeled Total Disappearance is derived as mill consumption plus imports and less exports. The United States remains a net importer of wool and wool products, with the 1979 net import figure of 66.2 million pounds which is projected to remain unchanged for 1980. Expressed in terms of share of the total disappearance, net imports in 1979 were 30% of disappearance, down from 33½% last year. For further details of U.S. foreign trade in wool and wool products, see pages 28-29 of the March 1980 ORGANON issue.

DISAPPEARANCE OF WOOL IN THE U.S.[1]

MILLION POUNDS, SCOURED BASIS

ITEM	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980[2]
MILL CONSUMPTION OF WOOL														
APPAREL CLASS - DOMESTIC	173.6	157.3	167.7	116.9	101.5	145.7	121.1	86.1	99.5	92.3	87.0	91.2	96.6	80.5
- FOREIGN	109.1	129.7	93.5	79.8	42.7	24.8	19.6	11.8	16.6	38.4	34.2	37.3	28.0	40.0
TOTAL APPAREL CLASS	282.7	287.0	261.2	196.7	144.2	170.5	140.7	97.9	116.1	130.7	121.2	128.5	124.6	120.5
CARPET CLASS - FOREIGN	83.9	91.3	93.7	76.6	75.1	76.4	41.4	18.6	15.9	15.2	12.7	13.1	9.9	9.5
SUBTOTAL ABOVE[3]	**366.6**	**378.3**	**354.9**	**273.3**	**219.3**	**246.9**	**182.1**	**116.5**	**132.0**	**145.9**	**133.9**	**141.6**	**134.5**	**130.0**
CONSUMED ON THE COTTON SYSTEM[4]	6.8	5.0	4.3	4.4	3.1	2.0	1.5	1.0	0.8	3.0	4.1	3.0	2.5	4.0
TOTAL RAW WOOL	**373.4**	**383.3**	**359.2**	**277.7**	**222.4**	**248.9**	**183.6**	**117.5**	**132.8**	**148.9**	**138.0**	**144.6**	**137.0**	**134.0**
REPROCESSED - CARPET	6.9	5.8	5.4	3.5	2.6	2.8	1.7	0.8	0.7	14.8	16.7	16.8	16.4	10.0
- OTHER	25.7	24.1	28.2	23.8	19.5	17.0	15.8	15.9	14.1					
REUSED - OTHER	4.6	3.7	3.1	3.9	2.6	2.6	2.3	1.9						
TOTAL ABOVE	**410.6**	**416.9**	**395.9**	**308.9**	**247.1**	**271.3**	**203.4**	**136.1**	**147.6**	**163.7**	**154.7**	**161.4**	**153.4**	**144.0**
WOOL CONTENT OF IMPORTS														
TOPS[5]	5.8	6.6	4.5	4.4	2.7	0.4	0.3	0.5	0.3	0.4	0.9	0.6	0.4	0.3
YARNS	9.7	10.9	8.6	8.1	7.7	6.3	4.9	5.4	4.1	5.4	5.8	5.5	3.8	3.8
CARPETS & RUGS	9.9	9.3	9.2	7.8	9.2	12.3	13.6	12.5	11.4	14.1	14.8	13.9	13.9	17.1
WOVEN FABRICS[6]	25.0	33.6	30.2	24.9	12.4	9.5	12.9	9.6	8.8	12.6	19.1	26.4	22.1	23.6
KNIT APPAREL	24.4	32.9	30.6	25.2	21.3	20.0	15.0	12.7	12.2	18.9	25.8	22.3	19.1	25.9
OTHER APPAREL	6.4	8.5	10.9	12.9	9.9	11.2	12.4	11.2	10.7	14.1	18.3	22.6	20.1	18.5
OTHER MANUFACTURES[7]	2.4	2.5	2.2	2.6	3.0	3.3	2.2	1.4	1.1	1.2	1.2	0.9	1.1	0.8
TOTAL IMPORTS[8]	**83.6**	**104.3**	**96.2**	**85.9**	**66.2**	**63.0**	**61.3**	**53.3**	**48.6**	**66.7**	**85.9**	**92.2**	**80.5**	**90.0**
WOOL CONTENT OF EXPORTS														
CARPET	0.5	0.8	1.0	0.9	1.2	1.1	1.9	2.5	1.9	2.3	2.0	0.7	0.3	0.3
OTHER	4.8	4.9	4.2	4.0	8.2	29.5	28.9	20.5	17.3	11.6	9.5	10.9	14.0	23.7
TOTAL EXPORTS[8]	**5.3**	**5.7**	**5.2**	**4.9**	**9.4**	**30.6**	**30.8**	**23.0**	**19.2**	**13.9**	**11.5**	**11.6**	**14.3**	**24.0**
NET IMPORTS	**78.3**	**98.6**	**91.0**	**81.0**	**56.8**	**32.4**	**30.5**	**30.3**	**29.4**	**52.8**	**74.4**	**80.6**	**66.2**	**66.0**
TOTAL DISAPPEARANCE	**488.9**	**515.5**	**486.9**	**389.9**	**303.9**	**303.7**	**233.9**	**166.4**	**177.0**	**216.5**	**229.1**	**242.0**	**219.6**	**210.0**
DISAPPEARANCE IN CARPETS & RUGS														
CARPET WOOL CONSUMPTION	90.8	97.1	99.1	80.1	77.7	79.2	43.1	19.4	16.6	15.5	12.8	13.2	10.0	9.5
IMPORTS OF CARPETS	9.9	9.3	9.2	7.8	9.2	12.3	13.6	12.5	11.4	14.1	14.8	13.9	13.9	17.1
EXPORTS OF CARPETS	0.5	0.8	1.0	0.9	1.2	1.1	1.9	2.5	1.9	2.3	2.0	0.7	0.3	0.3
TOTAL	**100.2**	**105.6**	**107.3**	**87.0**	**85.7**	**90.4**	**54.8**	**29.4**	**26.1**	**27.3**	**25.6**	**26.4**	**23.6**	**26.3**
% Imports of Total	*10*	*9*	*8 1/2*	*9*	*10 1/2*	*13 1/2*	*25*	*42 1/2*	*43 1/2*	*51 1/2*	*58*	*52 1/2*	*59*	*65*
DISAPPEARANCE IN ALL OTHER PRODUCTS														
OTHER WOOL CONSUMPTION	319.8	319.8	296.8	228.8	169.4	192.1	160.3	116.7	131.0	148.2	141.9	148.2	143.4	134.5
IMPORTS	73.7	95.0	87.0	78.1	57.0	50.7	47.7	40.8	37.2	52.6	71.1	78.3	66.6	72.9
EXPORTS	4.8	4.9	4.2	4.0	8.2	29.5	28.9	20.5	17.3	11.6	9.5	10.9	14.0	23.7
TOTAL	**388.7**	**409.9**	**379.6**	**302.9**	**218.2**	**213.3**	**179.1**	**137.0**	**150.9**	**189.2**	**203.5**	**215.6**	**196.0**	**183.7**
% Imports of Total	*19*	*23*	*23*	*26*	*26*	*24*	*26 1/2*	*30*	*24 1/2*	*28*	*35*	*36 1/2*	*34*	*39 1/2*

1. Calendar years.
2. Estimates based on 9 months' data for mill consumption and 10 months' data for imports & exports.
3. Agrees with ORGANON's Selected Monthly Data Table.
4. Raw wool consumed on the cotton spinning system.
5. Tops includes advanced wool.
6. Includes pile fabrics & manufactures, blankets, tapestry & upholstery, press & billiard cloths, car robes, etc.
7. Includes knit fabrics in the piece and miscellaneous manufactures not elsewhere specified.
8. March ORGANON page 29 or as revised later.

U.S. WOOL PRICES AND SUPPORT PROGRAMS

The current price of $2.42 per pound for domestic fine graded territory wool for 62s (combing & staple, clean basis, on the open market at Boston) compares with $2.15 a year ago. Prices of foreign wools have also increased. As of December 5th, the price of Australian 62s was $3.02 per pound compared with $2.83 a year ago.

A government wool price support program has been in effect since April 1955 in the form of incentive payments to sheep raisers, the original purpose of which was to encourage an annual shorn wool production of up to 300 million pounds. Authorized by the National Wool Act of 1954, this program guarantees wool growers a minimum price at which they can sell their shorn wool. The Agriculture and Consumer Protection Act of 1973 extended through December 31, 1977, the Federal support program for wool and mohair. In 1978 President Carter signed into law the National Wool Act extension through 1981 as part of the Food and Agriculture Act of 1977.

For 1980, the support price for shorn wool was set at $1.23 per pound, up from $1.15 a pound in 1979. During 1979, sheep producers receiving less than $100 represented 68% of producers receiving payments but only 8% of total support payments. Producers receiving support payments of $1,000 and more represent only 5% of sheep producers receiving payments yet they received 67% of total 1979 payments.

WOOL LABELING ACT AMENDED

On July 4, 1980, the Wool Products Labeling Act was amended. The amendment requires the word "recycled" to be used instead of "reused" or "reprocessed" on labels describing the wool content of the textile product.

MOHAIR SITUATION

The 1980 U.S. fall clip is estimated to have been about 5.0 million pounds. With a carryover of 1.0-1.25 million pounds from the spring clip, total domestic supply is just over 6.0 million pounds this fall.

This fall, mohair prices were in the following ranges: kid $5.00-$5.50 a pound, young goat $3.30-$4.25 a pound and adult $3.00-$3.25 a pound. The average farm price received by farmers in 1980 is around $3.40 a pound and the support price $2.90. These two prices for 1981 are estimated to be $4.50 and $3.72, respectively.

TWO BOOK REVIEWS

CIRFS 1980 YEARBOOK

International Rayon and Synthetic Fibres Committee (CIRFS), 29 rue de Courcelles, Paris 75 008, France. 136 pages. 1980

CIRFS has recently published the 1980 edition of its statistical yearbook. This trilingual booklet (English, French & German) presents statistical data on textile fiber production, consumption and foreign trade, with particular emphasis on the man-made fibers.

Annual production data are shown by country and by cellulosic or non-cellulosic yarn or staple; those data concerning consumption are given by the main utilizing sectors. The section on consumption by secondary or end use covers all the major apparel, home furnishings and industrial uses. Also included is the EEC consumption (by generic fiber) in carpets & rugs and nonwovens, both by fiber and end use.

Imports and exports of yarn, staple, spun yarn and fabrics made of the cellulosic and non-cellulosic fibers in several countries, and in world areas, are found in the chapter dealing with foreign trade in man-made fibers. This expanded section shows the by-country detail of exports from, and imports to, West Europe, Japan and the U.S.A.

TEXTILE FIBER CONSUMPTION IN THE 70s

The table opposite is a modification of the table "U.S. Mill Consumption of Fiber and Domestic Consumption of Fiber & Products," which appears regularly in the March ORGANON issue.

The differences in the tables are:

1) The textile glass fiber totals in Column 23 have been reduced by the amount of the reinforced plastics and electrical uses (see Items 69 & 77 on page 178 of the November ORGANON issue).

2) The poundages of linen, jute, sisal and other hard or leaf fibers have been added to the silk poundages under "Other" in Columns 27 and 38.

When all textile fibers are taken into account (less the aforementioned textile glass fiber for reinforced plastics and electrical uses), it will be seen that the consumption has grown at an annual average rate of 1.2% over the past decade. This compares with a figure of 2.1% when the "other" fibers are omitted and all applications of textile glass are included.

The decline in consumption of "other" fibers (chiefly jute) has been largely offset by increased consumption of olefin fiber.

U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF FIBER & PRODUCTS

MILLION POUNDS & *Percent*

YEAR	MAN-MADE FIBER MILL CONSUMPTION = PRODUCERS' DOMESTIC SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)																						TEX-TILE GLASS FIBER TOTAL
	RAYON+ACETATE											NON-CELLULOSIC FIBER											
	YARN+MONOFILAMENTS			STAPLE+TOW			WASTE				TOTAL	YARN+MONOFILAMENTS			STAPLE+TOW			WASTE				TOTAL	
	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET		DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
1968	779.9	14.6	794.5	768.5	125.0	893.5	44.3	0.2	21.7	22.8	1710.8	1522.0	33.7	1555.7	1432.8	89.8	1522.6	122.3	29.9	19.6	132.6	3210.9	126.4
1969	739.4	4.1	743.5	780.2	91.2	871.4	39.4	0.1	30.6	8.9	1623.8	1616.5	32.5	1649.0	1621.1	67.5	1688.6	140.3	20.1	30.2	130.2	3467.8	156.8
1970	695.9	3.7	699.6	634.2	80.6	714.8	34.5	0.1	22.9	11.7	1426.1	1682.6	120.8	1803.4	1682.1	57.7	1739.8	136.3	21.7	31.3	126.7	3669.9	143.0
1971	729.3	5.2	734.5	669.8	81.3	751.1	36.3	--	15.9	20.4	1506.0	2100.1	234.4	2334.5	1964.1	93.3	2057.4	157.8	36.2	29.4	164.6	4556.5	154.0
1972	632.8	10.8	643.6	718.4	51.3	769.7	38.5	--	23.6	14.9	1428.2	2689.8	224.5	2914.3	2363.1	103.7	2466.8	202.7	48.0	63.5	187.2	5568.3	172.0
1973	589.9	18.1	608.0	734.5	47.4	781.9	36.8	--	37.5	-0.7	1389.2	3273.7	140.1	3413.8	2848.4	112.8	2961.2	274.8	47.8	98.6	224.0	6599.0	182.3
1974	473.4	9.2	482.6	589.2	38.7	627.9	29.9	0.2	33.0	-2.9	1107.6	3142.3	92.1	3234.4	2450.5	73.2	2523.7	246.4	46.3	91.2	201.5	5959.6	176.0
1975	368.6	9.2	377.8	385.4	37.9	423.3	13.2	0.1	12.4	0.9	802.0	3214.8	53.8	3268.6	2553.5	55.2	2608.7	228.7	25.0	50.0	203.7	6081.0	141.1
1976	314.5	25.1	339.6	472.0	43.2	515.2	14.7	0.4	14.6	0.5	855.3	3147.2	64.0	3211.2	3018.5	67.3	3085.8	262.3	30.5	70.2	222.6	6519.6	170.0
1977	327.5	23.5	351.0	452.9	57.8	510.7	18.5	0.6	12.6	6.5	868.2	3461.4	92.5	3553.9	3373.1	52.9	3426.0	291.0	23.2	66.1	248.1	7228.0	202.1
1978	337.6	25.7	363.3	466.2	41.1	507.3	15.7	0.4	7.0	9.1	879.7	3641.9	52.2	3694.1	3505.5	60.5	3566.0	263.9	26.0	88.7	201.2	7461.3	238.5
1979	343.4	13.3	356.7	449.4	16.5	465.9	16.8	0.8	9.6	8.0	830.6	3797.6	20.0	3817.6	3713.5	39.3	3752.8	257.8	21.2	137.7	141.3	7711.7	241.9

YEAR	MILL CONSUMPTION										DOMESTIC CONSUMPTION = MILL CONSUMPTION + IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS												
	MAN-MADE FIBER[a]		COTTON		WOOL		OTHER		TOTAL		MAN-MADE FIBER			COTTON			WOOL			OTHER	TOTAL		
	LB	%	LB	%	LB	%	LB	%	LB	%	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS	CONS	IMP	EXP	CONS
	(24)		(25)		(26)		(27)		(28)		(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)	(41)
1968	5048.1	*51.1*	4104.1	*41.5*	378.4	*3.8*	359.3	*3.6*	9889.9	*100*	193.3	129.0	5112.4	473.8	188.2	4389.7	104.3	5.7	477.0	1681.9	2453.3	322.9	11661.0
1969	5248.4	*53.3*	3972.6	*40.3*	354.9	*3.6*	272.1	*2.8*	9848.0	*100*	257.5	146.2	5359.7	487.9	232.1	4228.4	96.2	5.2	445.9	1588.2	2429.8	383.5	11622.2
1970	5239.0	*54.8*	3773.6	*39.5*	273.3	*2.9*	270.6	*2.8*	9556.5	*100*	329.3	147.1	5421.2	463.1	199.2	4037.5	85.9	4.9	354.3	1429.4	2307.7	351.2	11242.4
1971	6216.5	*58.4*	3965.1	*37.3*	219.3	*2.1*	231.6	*2.2*	10632.5	*100*	451.1	146.7	6520.9	492.6	226.4	4231.3	66.2	9.4	276.1	1524.1	2534.0	382.5	12552.4
1972	7168.5	*62.4*	3849.8	*33.5*	246.9	*2.2*	213.7	*1.9*	11478.9	*100*	480.5	177.6	7471.4	610.7	290.4	4170.1	63.0	30.6	279.3	1514.2	2668.4	498.6	13435.0
1973	8170.5	*66.9*	3643.3	*29.8*	182.1	*1.5*	216.1	*1.8*	12212.0	*100*	465.3	288.2	8347.6	563.5	325.2	3881.6	61.3	30.8	212.6	1468.0	2558.1	644.2	13909.8
1974	7243.2	*66.7*	3306.1	*30.4*	116.5	*1.1*	200.8	*1.8*	10866.6	*100*	371.3	390.7	7223.8	502.7	392.5	3416.3	53.3	23.0	146.8	1447.3	2374.6	806.2	12234.2
1975	7024.1	*67.8*	3068.7	*29.6*	132.0	*1.3*	133.4	*1.3*	10358.2	*100*	400.4	322.4	7102.1	501.3	353.7	3216.3	48.6	19.2	161.4	904.6	1854.9	695.3	11384.4
1976	7544.9	*67.2*	3389.0	*30.2*	145.9	*1.3*	152.1	*1.3*	11231.9	*100*	479.5	352.2	7672.2	708.6	413.2	3684.4	66.7	13.9	198.7	1117.0	2371.8	779.3	12672.3
1977	8298.3	*70.7*	3169.8	*27.0*	133.9	*1.1*	144.6	*1.2*	11746.6	*100*	530.7	367.6	8461.4	669.4	369.5	3469.7	85.9	11.5	208.3	1071.4	2357.4	748.6	13210.8
1978	8579.5	*71.9*	3040.4	*25.5*	141.6	*1.2*	168.4	*1.4*	11929.9	*100*	642.6	441.7	8780.4	845.4	355.7	3530.1	92.2	11.6	222.2	1086.1	2666.3	809.0	13618.8
1979	8784.2	*72.3*	3066.4	*25.2*	134.5	*1.1*	167.9	*1.4*	12153.0	*100*	525.0	596.6	8712.6	746.1	478.0	3334.5	80.5	14.3	200.7	1018.7	2370.3	1088.9	13266.5

a. The man-made fiber data include textile glass fiber as shown in Column 23 in the upper section. For producers' total shipments and imports of textile glass fiber, see page 13 of the February 1980 issue.

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ( )

All Census import commodity numbers are those of January 1978; export commodity numbers are those of January 1978.

1, 4, 7, 12, 15, 18 & 23 - February 1980 ORGANON.

2 - Import Classes 309.0310, .0610. .2000, 310.0106, .0130, .0206, .0230, .0510 & .0610.

5 - Import Classes 309.3010, .3110, .4320 & .4325.

8 - Import Classes 309.6615 & .7510.

9 - Export Classes 309.7400.

13 - Import Classes 309.0200, .0330-.0365, .0500, .0630-.0665, .2100, .2500, 310-.0109-.0114, .0149-.0170, .0209-.0214, .0249-.0270, .0530, .0550, .0630 & .0650.

16 - Import Classes 309.3030-.3065, .3130-.3165, .4338-.4355.

19 - Import Classes 309.6000, .6625-.7000, .7525-.7555.

20 - Export Classes 309.7620, .7630, .7640 & .7660.

23 - Import Classes 309.2800, .2900, .9800 & .9900 plus domestic shipments excluding Reinforced Plastics and Electrical Uses. See text page 200.

25 - U.S. Census Bureau Report M22P.

26 - U.S. Census Bureau Report M22D.

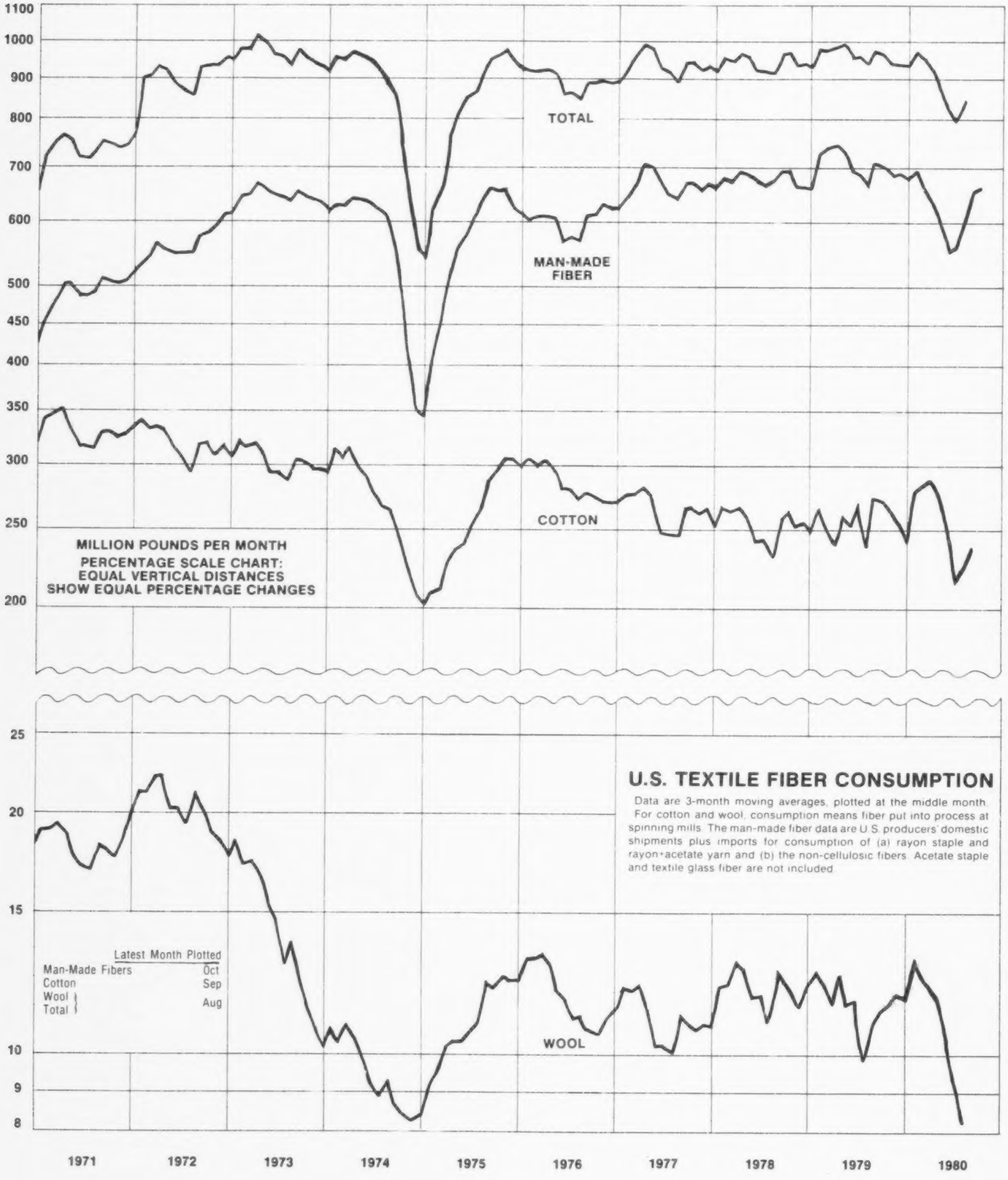
27 - Raw material imports of silk, linen, jute, sisal & other hard or leaf fibers (see page 171 of the November 1980 ORGANON issue). Also see text page 200.

28 - Raw material plus semimanufactured imports of silk, linen, jute, sisal & other hard or leaf fibers (see page 171 of the November 1980 ORGANON issue). Also see text page 200.

29, 30, 32, 33, 35 & 36 - "Cotton and Wool Situation" (U.S. Department of Agriculture).

CERTAIN TOTALS IN THE TABLES (obvious totals such as Columns 1+2=3, 4+5=6, etc., are described here).

10 - Columns7+8-9
21 - Columns 18+19-20
24 - Columns 11+22+23
31 - Columns 24+29-30
34 - Columns 25+32-33
37 - Columns 26+35-36



U.S. TEXTILE FIBER CONSUMPTION

Data are 3-month moving averages, plotted at the middle month. For cotton and wool, consumption means fiber put into process at spinning mills. The man-made fiber data are U.S. producers' domestic shipments plus imports for consumption of (a) rayon staple and rayon+acetate yarn and (b) the non-cellulosic fibers. Acetate staple and textile glass fiber are not included.

1100
1000
900
800
700
600
500
450
400
350
300
250
200
TOTAL
MAN-MADE FIBER
COTTON
MILLION POUNDS PER MONTH
PERCENTAGE SCALE CHART: EQUAL VERTICAL DISTANCES SHOW EQUAL PERCENTAGE CHANGES
25
20
15
10
9
8
WOOL
Latest Month Plotted
Man-Made Fibers Oct
Cotton Sep
Wool Aug
Total Aug
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980

U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER & MANUFACTURES, COTTON MANUFACTURES & WOOL MANUFACTURES

MILLION POUNDS

PRODUCTS	2ND Q 1979			3RD Q 1979			4TH Q 1979			1ST Q 1980			2ND Q 1980			3RD Q 1980		
	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]	IMP	EXP	BAL[a]
RAYON+ACETATE																		
YARN+MONOFILAMENTS	3.3	8.1	4.8 E	3.5	6.5	3.0 E	2.8	8.3	5.5 E	2.0	6.9	4.9 E	2.5	6.3	3.8 E	1.8	6.7	4.9 E
STAPLE+TOW[b]	5.2	24.7	19.5 E	2.7	27.4	24.7 E	1.8	20.5	18.7 E	2.1	19.1	17.0 E	2.0	19.3	17.3 E	2.7	19.7	17.0 E
WASTE	0.1	3.3	3.2 E	0.1	1.3	1.2 E	0.2	1.7	1.5 E	0.1	1.9	1.8 E	0.1	1.8	1.7 E	0.1	1.7	1.6 E
SUBTOTAL ABOVE	8.6	36.1	27.5 E	6.3	35.2	28.9 E	4.8	30.5	25.7 E	4.2	27.9	23.7 E	4.6	27.4	22.8 E	4.6	28.1	23.5 E
NON-CELLULOSIC FIBERS																		
YARN+MONOFILAMENTS	5.7	64.9	59.2 E	4.3	85.9	81.6 E	3.7	82.0	78.3 E	4.8	78.3	73.5 E	5.4	92.5	87.1 E	5.6	92.3	86.7 E
STAPLE+TOW	10.7	147.0	136.3 E	10.0	164.5	154.5 E	8.9	188.1	179.2 E	9.6	163.8	154.2 E	9.8	190.9	181.1 E	7.1	182.0	174.9 E
WASTE	5.5	31.6	26.1 E	5.3	33.7	28.4 E	4.7	46.7	42.0 E	5.8	38.1	32.3 E	5.1	33.7	28.6 E	4.4	22.3	17.9 E
SUBTOTAL ABOVE	21.9	243.5	221.6 E	19.6	284.1	264.5 E	17.3	316.8	299.5 E	20.2	280.2	260.0 E	20.3	317.1	296.8 E	17.1	296.6	279.5 E
TOTAL FIBER ABOVE[c]	30.5	279.6	249.1 E	25.9	319.3	293.4 E	22.1	347.3	325.2 E	24.4	308.1	283.7 E	24.9	344.5	319.6 E	21.7	324.7	303.0 E
MAN-MADE FIBER MANUFACTURES[d]																		
SLIVER, TOPS & ROVING	2.4	3.8	1.4 E	1.4	3.1	1.7 E	0.9	3.4	2.5 E	0.7	4.0	3.3 E	0.9	3.3	2.4 E	1.0	2.4	1.4 E
SPUN YARNS	7.4	8.2	0.8 E	5.7	8.3	2.6 E	6.0	10.0	4.0 E	7.3	7.5	0.2 E	6.5	8.2	1.7 E	4.1	7.4	3.3 E
THREAD & CRAFT YARNS	0.7	1.9	1.2 E	0.5	1.5	1.0 E	0.7	2.9	2.2 E	0.7	2.3	1.6 E	0.5	1.7	1.2 E	0.5	1.9	1.4 E
TIRE CORD & FABRIC	0.1	19.5	19.4 E	+	21.3	21.3 E	+	24.0	24.0 E	+	24.3	24.3 E	+	32.0	32.0 E	+	27.7	27.7 E
WOVEN FABRIC	18.4	56.8	38.4 E	15.9	54.9	39.0 E	12.1	63.5	51.4 E	16.3	55.7	39.4 E	18.0	63.7	45.7 E	17.2	60.3	43.1 E
KNIT FABRIC	1.9	4.0	2.1 E	2.1	3.8	1.7 E	1.9	4.6	2.7 E	1.5	5.2	3.7 E	1.4	6.0	4.6 E	1.6	5.8	4.2 E
NARROW FABRIC	2.7	3.0	0.3 E	2.1	3.0	0.9 E	1.7	3.3	1.6 E	2.5	4.9	2.4 E	2.1	7.8	5.7 E	1.9	6.7	4.8 E
APPAREL - KNIT	48.3	14.9	75.7 I	54.8	14.0	92.9 I	42.9	16.9	66.0 I	35.8	29.2	46.2 I	50.3	33.7	63.0 I	61.9	32.1	87.8 I
- NOT KNIT	42.3			52.1			40.0			39.6			46.4			58.0		
HOME FURNISHINGS	12.5	15.7	22.5 E	13.1	15.5	19.2 E	12.0	21.9	26.7 E	11.5	25.2	31.6 E	13.9	31.3	34.4 E	13.8	25.9	27.4 E
OTHER		19.3			16.8			16.8			17.9			17.0			15.3	
TOTAL MANUFACTURES	136.7	147.1	10.4 E	147.7	142.2	5.5 I	118.2	167.3	49.1 E	115.9	176.2	60.3 E	140.0	204.7	64.7 E	160.0	185.5	25.5 E
TOTAL MAN-MADE FIBER & MANUFACTURES	167.2	426.7	259.5 E	173.6	461.5	287.9 E	140.3	514.6	374.3 E	140.3	484.3	344.0 E	164.9	549.2	384.3 E	181.7	510.2	328.5 E
COTTON MANUFACTURES[e]	180.1	118.9	61.2 I	195.1	113.2	81.9 I	177.5	132.6	44.9 I	197.3	140.8	56.5 I	217.1	139.9	77.2 I	223.0	125.5	97.5 I
WOOL MANUFACTURES[f]	30.6	3.8	26.8 I	34.2	3.5	30.7 I	22.9	4.7	18.2 I	22.2	4.0	18.2 I	27.4	8.2	19.2 I	32.1	6.4	25.7 I

SOURCES: The man-made fiber import and export data are from the U.S. Bureau of the Census.

The man-made, cotton and wool manufactures data are from "Cotton and Wool Situation," a publication of the U.S. Department of Agriculture.

The total man-made fiber and manufactures import, export and balance data of this table cover the cellulosic and non-cellulosic fibers only; textile glass fiber is excluded.

a. E means a net export balance; I is a net import balance.

b. Acetate tow is excluded.

c. The fibers included are shown as "Total Man-Made Fiber Above" on pages 189 and 190 of the November 1980 ORGANON.

d. Man-made fiber equivalent.

e. Raw cotton equivalent. Data are similar to those on page 29 of the March 1980 ORGANON.

f. Raw wool content. The data differ from those on page 29 of the March 1980 ORGANON to the extent that noils and waste are included here.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1980										10 MONTHS	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	1980	1979
RAYON+ACETATE													
YARN - SINGLES													
TEXTURED	310.0106 & .0206	132	39	80	437	0	77	43	36	--	19	863	2375
OTHER	310.0130 & .0230[1]	625	675	485	548	785	648	534	584	570	707	6161	8919
MONOFILAMENTS	309.0310 & .0610	0	0	0	0	0	0	0	0	0	0	0	--
STRIPS, $1/LB & UNDER	309.2000*	0	0	0	0	0	0	0	0	0	10	10	81
SUBTOTAL ABOVE		**757**	**714**	**565**	**985**	**785**	**725**	**577**	**620**	**570**	**736**	**7034**	**11375**
STAPLE	309.4320 & .4325	440	190	800	596	260	408	1257	507	646	720	5824	12873
GROUPED FILAMENTS	309.3010 & .3110	279	146	264	183	311	213	0	156	171	288	2011	2256
SUBTOTAL ABOVE		**719**	**336**	**1064**	**779**	**571**	**821**	**1257**	**663**	**817**	**1008**	**7835**	**15129**
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	35	16	0	42	58	0	40	0	35	81	307	684
NON-CELLULOSIC FIBERS													
YARN - SINGLES													
TEXTURED - NYLON	310.0109 & .0209	44	80	1	71	42	178	78	142	1519	826	2981	924
- POLYESTER	310.0110 & .0210	32	0	66	82	31	79	3	16	3	10	322	1013
- OTHER	310.0114 & .0214	43	21	39	37	6	0	20	7	9	4	186	147
OTHER - NYLON	310.0149 & .0249	514	489	325	257	252	260	327	324	328	175	3251	5422
- POLYESTER	310.0150 & .0250	488	296	479	726	727	886	435	784	493	460	5774	6664
- OTHER	310.0170 & .0270[2]	134	117	141	168	91	169	67	82	92	54	1115	1157
MONOFILAMENTS	309.0200 & .0330[3]	497	287	639	507	357	429	273	300	176	222	3687	1794
STRIPS, OVER $1/LB	309.2100 & .2500*	16	17	25	32	35	11	20	12	21	12	201	299
SUBTOTAL ABOVE		**1768**	**1307**	**1715**	**1880**	**1541**	**2012**	**1223**	**1667**	**2641**	**1763**	**17517**	**17420**
STAPLE - NYLON	309.4338	94	67	126	190	194	83	130	101	155	180	1320	2067
- POLYESTER	309.4342	236	70	62	53	163	73	187	66	121	38	1069	2590
- ACRYLIC	309.4345	1333	945	1095	1732	1265	1279	1311	585	797	668	11010	11535
- OLEFIN	309.4346	--	3	3	0	13	41	13	46	24	1	144	46
- OTHER	309.4355	497	1644	1755	1123	1376	903	999	1008	1070	1650	12025	13437
GROUPED FILAMENTS													
NYLON	309.3030 & .3130	90	26	71	35	103	206	94	40	92	55	812	629
POLYESTER	309.3040 & .3140	0	0	25	30	40	22	0	--	0	--	117	43
ACRYLIC	309.3050 & .3150	558	346	299	341	224	87	52	60	82	237	2286	1952
OTHER	309.3065 & .3165	99	8	151	42	66	81	23	25	37	77	609	1196
SUBTOTAL ABOVE		**2907**	**3109**	**3587**	**3546**	**3444**	**2775**	**2809**	**1931**	**2378**	**2906**	**29392**	**33495**
WASTE, NOT ADVANCED - NYLON	309.6625	1533	1226	1299	733	1055	1056	900	711	472	903	9888	10865
- POLYESTER	309.6630	202	283	452	292	301	413	313	633	562	781	4232	2854
- ACRYLIC	309.6645	156	67	247	315	195	239	223	124	209	233	2008	1985
- OTHER	309.6660	29	41	172	125	42	123	49	124	6	43	754	1394
NOILS & GARNETTED FIBERS	309.6000 & .7000*	0	0	0	2	0	0	2	0	0	0	4	3
OTHER WASTE, ADVANCED	309.7525 - .7555	20	58	24	108	51	72	94	5	3	33	468	769
TOTAL MAN-MADE ABOVE		**8126**	**7157**	**9125**	**8807**	**8043**	**8036**	**7487**	**6478**	**7693**	**8487**	**79439**	**95973**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD													
YARN - PLIED													
TEXTURED - CELLULOSIC	310.1106	0	0	0	0	0	0	0	0	0	0	0	2
- NON-CELLULOSIC	310.1015[4] & .1109[5]	85	104	75	91	222	97	84	24	16	77	875	1698
OTHER - CELLULOSIC	310.1030 & .1135[6]	14	21	12	27	18	5	0	0	0	0	97	25
- NON-CELLULOSIC	310.1050 & .1070[7]	36	14	56	63	49	63	26	23	15	11	356	167
SPUN YARN - CELLULOSIC	310.4005 & .4030[8]	102	101	116	16	66	30	18	16	27	16	508	545
- OTHER	310.4015 & .4027[9]	2162	2000	2238	1703	1830	1842	1052	1226	1145	1429	16627	16895
OTHER YARNS - NES, INCL. CHENILLE	310.6029 - .8000	125	177	249	216	236	356	212	154	132	91	1948	3502
HANDWORK YARNS & SEWING THREAD	310.9000 - .9140	245	191	263	198	152	146	125	194	185	160	1859	2170
SLIVER, TOPS & ROVING	309.9000	274	111	261	158	355	349	465	151	360	2	2486	5776
TEXTILE GLASS FIBER	309.2800 & .2900[10]	712	689	603	895	428	717	499	495	625	311	5974	9320
GRAND TOTAL ABOVE		**11881**	**10565**	**12998**	**12174**	**11399**	**11641**	**9968**	**8761**	**10198**	**10584**	**110169**	**136073**

SOURCE: U.S.Census Bureau.

NES - Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

1. Also includes 310.0510 & .0610.
2. Also includes 310.0530, .0550, .0630 & .0650.
3. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.
4. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.
5. Also includes 310.1110 & .1114.
6. Also includes 310.2010 & .2110.
7. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.
8. Also includes 310.5005 & .5030.
9. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.
10. Chiefly roving. Also includes 309.9800 & .9900.

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEM	1980										10 MONTHS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	1980	1979
RAYON+ACETATE YARN, MONOFIL & STRIPS												
CANADA	83	33	1	51	33	29	36	36	280	112	694	1657
MEXICO	154	116	185	109	148	146	80	163	86	41	1228	1227
WEST GERMANY	159	122	97	129	32	102	51	51	58	67	868	2776
NETHERLANDS	34	34	29	84	318	228	162	248	17	394	1548	367
UNITED KINGDOM	140	153	213	562	108	163	151	57	30	29	1606	3449
JAPAN	143	91	0	50	146	57	57	25	36	33	638	344
ALL OTHER COUNTRIES[1]	44	165	40	0	0	0	40	40	63	60	452	1555
TOTAL R+A YARN	**757**	**714**	**565**	**985**	**785**	**725**	**577**	**620**	**570**	**736**	**7034**	**11375**
RAYON+ACETATE STAPLE+TOW												
CANADA	68	131	130	61	115	142	87	92	259	444	1529	1382
AUSTRIA	20	0	110	80	88	55	213	188	301	20	1075	5352
WEST GERMANY	18	--	38	23	7	20	0	19	5	85	215	382
SWEDEN	321	41	476	410	0	0	897	228	0	182	2555	5028
UNITED KINGDOM	202	133	107	160	341	192	0	108	0	218	1461	1621
JAPAN	87	29	198	45	0	135	60	28	207	59	848	688
ALL OTHER COUNTRIES[2]	3	2	5	0	20	77	--	0	45	0	152	676
TOTAL R+A STAPLE	**719**	**336**	**1064**	**779**	**571**	**821**	**1257**	**663**	**817**	**1008**	**7835**	**15129**
NON-CELLULOSIC YARN, MONOFIL & STRIPS												
ARGENTINA	43	43	57	43	36	89	0	0	0	0	311	50
CANADA	42	102	57	196	59	261	59	2	1441	600	2819	466
BELGIUM	1	24	--	4	3	1	0	0	0	0	33	215
FRANCE	1	14	65	65	69	125	8	85	160	71	663	1145
WEST GERMANY	308	265	311	395	275	351	135	95	136	290	2561	2536
IRELAND	72	6	8	44	7	1	2	2	2	1	145	442
ITALY	23	0	6	9	5	12	14	36	11	65	181	375
NETHERLANDS	24	1	12	12	12	61	0	0	--	0	122	180
UNITED KINGDOM	20	46	10	10	44	13	120	197	138	3	601	664
JAPAN	1202	782	1185	1094	1030	1052	872	1195	682	701	9795	10231
TAIWAN	0	13	0	0	0	32	5	32	0	0	82	415
ALL OTHER COUNTRIES[3]	32	11	4	8	1	14	8	23	71	32	204	701
TOTAL N.C. YARN	**1768**	**1307**	**1715**	**1880**	**1541**	**2012**	**1223**	**1667**	**2641**	**1763**	**17517**	**17420**
NON-CELLULOSIC STAPLE+TOW												
CANADA	176	225	418	479	274	40	40	88	111	145	1996	927
WEST GERMANY	1158	793	719	1065	988	990	963	334	622	650	8282	8713
ITALY	99	17	134	157	165	221	97	80	51	45	1066	2693
ROMANIA	201	25	19	0	30	47	132	25	0	0	479	1388
UNITED KINGDOM	400	276	110	294	223	183	78	131	78	108	1881	2765
JAPAN	694	300	620	706	599	459	602	296	576	384	5236	7751
TAIWAN	162	1458	1491	778	1138	832	884	974	914	1556	10187	8753
ALL OTHER COUNTRIES[4]	17	15	76	67	27	3	13	3	26	18	265	505
TOTAL N.C. STAPLE	**2907**	**3109**	**3587**	**3546**	**3444**	**2775**	**2809**	**1931**	**2378**	**2906**	**29392**	**33495**

Other countries supplying 1980 poundages are:

1. Austria 59, Iraq 109, Korea 120, Spain 79, Sweden 41 & Yugoslavia 44.
2. Belgium 5, Egypt 2, Finland 1, France 100, India 42, Mexico 1 & USSR 1.
3. Australia 1, Austria 1, Greece 15, Israel 67, Korea 9, Mexico 26, Portugal 5, Spain 62 & Switzerland 18.
4. Belgium 3, Costa Rica 1, Finland 1, France 46, Hong Kong 4, India 41, Ireland 1, Israel 11, Mexico 24, Netherlands 20, Poland 53, Spain 53 & Switzerland 7.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1980 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR TO DATE[1] 1980	1979
	TOTAL SHIPMENTS[3]													
MAN-MADE FIBER DATA[2]														
YARN+MONOFILAMENTS[4]														
ACETATE	**27.7**	**27.1**	**26.9**	**29.6**	**26.7**	**24.3**	**25.0**	**24.4**	**23.0**	**25.0**	**21.8**		**280.5**	**295.4**
NYLON[5] - INDUSTRIAL[6]	41.9	41.2	43.2	39.2	33.2	27.8	32.2	31.0	36.7	41.9	40.2		408.5	449.1
- LOW DENIER INDUSTRIAL[7]	3.1	3.1	4.1	3.1	3.1	2.2	2.5	2.5	3.3	3.0	2.8		32.8	33.8
- CARPET	66.5	61.7	65.0	64.4	51.8	49.2	51.0	58.3	72.3	70.7	68.8		679.7	706.6
- TEXTILE	41.0	37.8	42.6	42.9	36.8	31.2	28.4	30.5	35.2	36.6	37.6		400.6	451.2
POLYESTER - INDUSTRIAL[6]	29.3	26.9	26.2	23.8	21.1	19.0	18.7	21.9	25.6	28.2	25.1		265.8	338.6
- LOW DENIER INDUSTRIAL[7]	2.6	2.6	3.1	2.9	2.7	2.4	2.1	1.9	2.5	2.1	2.5		27.4	29.3
- TEXTILE	104.7	98.8	109.4	104.0	90.2	85.6	85.3	94.2	96.8	101.9	97.3		1068.2	1185.8
OLEFIN[8]	54.8	54.8	53.5	48.3	52.2	48.7	48.7	52.2	50.8	55.8	57.2		577.0	589.8
TOTAL NON-CELLULOSIC ABOVE[9]	**343.9**	**326.9**	**347.1**	**328.6**	**291.1**	**266.1**	**268.9**	**292.5**	**323.2**	**340.2**	**331.5**		**3460.0**	**3784.2**
STAPLE+TOW+FIBERFILL[10]														
RAYON	**44.2**	**40.1**	**43.9**	**41.0**	**35.0**	**34.4**	**32.1**	**34.5**	**36.9**	**38.9**	**37.3**		**418.3**	**503.1**
NYLON[5]	71.4	58.4	50.9	48.0	45.5	45.8	56.5	63.3	75.5	76.1	73.5		664.9	873.1
ACRYLIC+MODACRYLIC	66.8	72.5	72.9	67.1	65.5	67.0	54.7	59.0	58.3	62.8	61.5		708.1	705.7
POLYESTER	219.6	226.9	201.4	207.3	199.4	188.2	176.2	209.6	217.2	230.4	213.2		2289.4	2264.2
OLEFIN+VINYON	9.9	9.7	10.7	9.4	8.9	8.5	8.2	10.1	9.7	11.9	11.2		108.2	112.3
TOTAL NON-CELLULOSIC ABOVE	**367.7**	**367.5**	**335.9**	**331.8**	**319.3**	**309.5**	**295.6**	**342.0**	**360.7**	**381.2**	**359.4**		**3770.6**	**3955.3**
	END OF MONTH STOCK													
YARN+MONOFILAMENTS														
ACETATE	**12.8**	**11.9**	**11.1**	**11.5**	**11.3**	**12.6**	**14.6**	**14.5**	**17.7**	**16.6**	**17.2**		**17.2**	**11.5**
NYLON[5] - INDUSTRIAL[6]	39.5	39.7	38.0	41.2	42.1	42.8	34.5	31.7	30.0	25.6	25.5		25.5	35.3
- LOW DENIER INDUSTRIAL[7]	4.8	4.2	3.7	4.2	4.3	4.2	3.9	3.3	3.0	3.1	2.9		2.9	4.3
- CARPET	58.9	61.7	62.6	66.7	72.2	68.9	57.9	48.6	39.7	35.0	32.7		32.7	58.6
- TEXTILE	56.3	60.2	58.0	56.1	60.2	59.8	56.7	55.8	51.0	48.7	46.9		46.9	52.6
POLYESTER - INDUSTRIAL[6]	31.5	31.6	31.2	31.8	30.7	32.5	28.1	27.4	25.1	22.2	21.9		21.9	25.3
- LOW DENIER INDUSTRIAL[7]	2.5	2.8	2.4	1.7	2.0	2.5	2.7	3.7	4.0	4.1	3.9		3.9	2.6
- TEXTILE	121.4	120.9	111.3	110.5	107.3	96.9	92.5	86.3	91.7	92.7	90.0		90.0	119.6
OLEFIN[8]	71.1	69.8	72.1	76.6	78.0	75.7	73.8	73.5	70.8	70.0	65.7		65.7	68.2
TOTAL NON-CELLULOSIC ABOVE[9]	**386.0**	**390.9**	**379.3**	**388.8**	**396.8**	**383.3**	**350.1**	**330.3**	**315.3**	**301.4**	**289.5**		**289.5**	**386.5**
STAPLE+TOW+FIBERFILL														
RAYON	**39.5**	**30.2**	**34.3**	**35.3**	**38.6**	**37.3**	**37.6**	**34.4**	**34.8**	**31.3**	**28.2**		**28.2**	**33.9**
NYLON[5]	60.9	75.1	84.3	85.0	75.5	73.3	59.3	47.7	39.2	33.3	31.1		31.1	49.3
ACRYLIC+MODACRYLIC	63.1	60.4	54.9	54.6	52.5	53.0	57.5	57.8	63.1	65.0	62.4		62.4	59.9
POLYESTER	181.7	177.2	185.6	186.8	168.1	173.9	177.7	163.3	160.5	154.8	157.0		157.0	177.8
OLEFIN+VINYON	20.1	21.1	20.6	22.2	22.8	24.1	23.4	22.5	22.6	18.0	17.1		17.1	20.6
TOTAL NON-CELLULOSIC ABOVE	**325.8**	**333.8**	**345.4**	**348.6**	**338.9**	**324.3**	**317.9**	**291.3**	**285.4**	**271.1**	**267.6**		**267.6**	**307.6**
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	11.6	11.6	12.6	10.4	10.3	12.0	6.0	7.5	8.4				90.4	93.1
CARPET CLASS WOOL	0.9	0.8	1.0	0.7	0.7	0.8	0.6	0.9	0.8				7.2	8.0
TOTAL RAW WOOL	12.5	12.4	13.6	11.1	11.0	12.8	6.6	8.4	9.2				97.6	101.1
RAW COTTON	270.6	252.7	287.9	280.6	280.1	237.7	207.3	221.4	263.9	239.2			2541.4	2579.2

1. Year to date totals except for stock, which is the latest month's data.
2. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.
3. Producers' total domestic plus export shipments.
4. Rayon yarn data are available annually only; see page 13 of the February issue.
5. Data for nylon includes aramid.
6. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.
7. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.
8. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.
9. Saran and spandex data are not included in these totals. See page 13 of the February issue for annual data on these yarns.
10. Acetate staple+tow data are available annually only; see page 13 of the February issue.

ANNUAL BOUND ORGANON EDITION

A limited number of bound copies of the 1980 TEXTILE ORGANON, Volume LI, will be available at $50.00 each (postpaid). Remittance with the order please.

ANNUAL INDEX - VOLUME FIFTY-ONE

The names of U.S. producers of the man-made fibers, together with the products made, are listed on pages 142-146. The corresponding list of world producers is on pages 85-100. Individual producers' names are not shown in this index unless there have been new items concerning them during the year.

Monthly U.S. fiber shipments, stock, etc., are shown in the table "Selected U.S. Monthly Textile Fiber Data," which is usually found on the last page of each ORGANON issue. In the following index, this is called the "Monthly Table."

Each issue of the ORGANON contains one or more principal topics, e.g., the World Man-Made Fiber Survey in June. Following is a brief outline of major subjects covered in the 1980 issues. The numbers in parentheses are the pages of each month's issue.

JANUARY	Commodity Credit Corporation's Annual Report (1-8)
FEBRUARY	Annual Review of the U.S. Man-Made Fiber Producing Industry, incl. Production, Shipments, Stock, etc. Broad Woven Goods Production (9-24)
MARCH	U.S. Mill Consumption and Domestic Consumption of Textile Fibers. Imports, Exports & Balance (25-40)
APRIL	Annual U.S. Man-Made Fiber Import-Export Review (41-56)
MAY	Quarterly U.S. Man-Made Fiber Review. Broad Woven Goods Production (57-72)
JUNE	World Man-Made Fiber Survey. Directory of World Man-Made Fiber Producers. Also see pages 105-115 (73-104)
JULY	World Man-Made Fiber Data in Pounds. U.S. Hosiery Production (105-120)
AUGUST	Quarterly U.S. Man-Made Fiber Review. Broad Woven Goods Production (121-136)
SEPTEMBER	Directory of U.S. Man-Made Fiber Producers. First Half Man-Made Fiber Import-Export Review (137-152)
OCTOBER	World Cotton Review (153-168)
NOVEMBER	Textile Fiber End Use Survey. Quarterly U.S. Man-Made Fiber Review. Estimates of Apparel Market in U.S. (169-192)
DECEMBER	World Wool Review. Producing Capacity of the U.S. Man-Made Fiber Industry (193-206)

A

Acetate - see Rayon and Acetate
  Staple Production & Capacity, World - 78, 110
Acrylic Fiber - see Man-Made Fibers
Alginate Fiber - see Man-Made Fibers
American Textile Manufacturers Institute - 31, 160
Amoco Chemicals Corporation - 26
Apparel
  Fiber Used in - 172-175
  Imports - 45, also see Apparel listing under Imports
  U.S. Market - 52, 181, 183
Aramid Fiber - see Man-Made Fibers
Average Denier - 197
Avtex Fibers Inc. - 9
Azlon Fiber - see Man-Made Fibers

B

Book Reviews in 1980
  CIRFS 1980 Yearbook - 200
  Chemical Technology of Fibrous Materials - 2
  Courtaulds - An Economic and Social History - 162
  International Textile Manufacturers Federation - 75 Years, 1904-1979 - 2
  Processing of Man-Made Fibers - 65
  Processing of Polyester Fibres - 66
Broad Woven Fabric Production of Chafer, Cotton, Man-Made Fibers, Textile Glass, Tire Cord and Woolen & Worsted - 21, 67, 128
Broad Woven Goods - see Man-Made Fibers, Filament Yarn & Staple+Tow Domestic Shipments

C

Capacity, Producing - see Man-Made Fibers
Captive Fiber Producers - 147
Carpets & Rugs - 172, 176-177, 179, 199, also see Man-Made Fibers, Filament Yarn & Staple+Tow Domestic Shipments
Carpet Yarn Production, Western European - 74
Chafer - see Broad Woven Fabric Production
Chevron Chemical Company of Puerto Rico - 9
Cigarette Filtration Tow - 78, 110
Circular Knit Fabrics - see Man-Made Fibers, Filament Yarn & Staple+Tow Domestic Shipments
Commodity Credit Corporation (CCC) - see Cotton
Communist Country Imports & Exports - 82-83, 147-148, 164-165
Consumption
  Average Annual Fiber Available for - 34
  U.S. Textile Fiber - 13, 27-28, 31-36, 155-156, 159, 169-183, 199, also see Monthly Table
  U.S. Textile Fiber (chart) - 3, 37, 71, 135, 163, 188, 202
Corrections & Additions, ORGANON - 2, 106
Cotton
  Acreage & Yield - 156
  Annual Review - 154
  Broad Woven Goods - 20-21, 66-67, 128-129
  Carpets & Rugs - 172, 176-177, 179
  Carryover - 156, 158
  CCC Investment & Operations - 6-7, 158, 160-161

C *(Continued)*

Cotton *(Continued)*
  Consumption - also see Monthly Table
    By End Use - 169-183
    Domestic - 28, 32-34, 155-156, 159, 183
    Mill - 27-28, 31-34, 159, 171-172, 201-202
    Per Capita, U.S. - 34-35
    Per Consuming Unit - 34-35
    Raw - 36
    World - 155-156
  Crop
    Estimate for 1980 - 122, 155-156
    In 1979 - 6, 58
  Dust Standard - 26, 160
    U.S. Supreme Court To Rule on - 160
  Ginnings - 8, 158
  Imports & Exports - 28-30, 33-34, 50, 52, 59, 123, 139, 156, 158-159, 162, 171, 180, 183, 203
  International Trade - 155
  Nonrecourse Loans - 153
  Price Support Programs - 156
  Prices - 160
  Production
    U.S. - 155-158
    World - 73, 105, 155-157
  Quota on Imports - 162
  Stocks - 156, 158
  Supply &
    Demand Outlook - 122
    Distribution - 158
  Tire Cord - 21, 67, 130

E

Elastomeric Fibers - see Spandex Fiber, under Man-Made Fibers
Emergency Agriculture Act of 1978 - 156, 160
End Use Fiber Consumption Survey - 169-183
European Economic Community (EEC)
  Assesses Antidumping Duty - 138
  Consumption in - 172
  U.S. Exports to - 164
Export-Import Balance - 30, 33, 42, 50-51, 59, 61, 82-84, 106, 114, 123, 138-139, 158-159, 203
Exports - also see individual fibers
  Broad Woven Goods - 180
  By Country of Destination - 48-49, 147-149
  Communist Countries - 147-148
  Domestic Products - 173, 180
  Manufactured Goods - 28-30, 50-52, 59, 123, 139, 158, 180, 203
  Nonproducing Countries - 148-149
  Raw Fiber Equivalent - 29, 49
  Textured Yarn - 11, 47, 70, 134, 141, 189

F

Filament Consumed in Broad Woven Fabric Mills - 20, 66, 129
Film Fiber - see Olefin Fibers, under Man-Made Fibers
Flat Knit Goods - see Man-Made Fibers, Filament Yarn & Staple+Tow Domestic Shipments
Fluorocarbon Fiber - see Man-Made Fibers
Food and Agriculture Act of 1977 - 156, 160, 162, 200

G

Glass Fiber - see Textile Glass Fiber

H

Home Furnishings, Fiber Used in - 172-173, 176-177, 179
Hosiery - 115-116, 174, also see Man-Made Fibers, Filament Yarn & Staple+Tow Domestic Shipments
Stanley B. Hunt - 9

I

Imports - also see individual fibers
  Apparel - 30, 45, 50, 52, 59, 123, 139, 183, 203
  Broad Woven & Knit Goods - 29, 43, 45
  By Country of Origin - 43, 46, also see Monthly Imports for Consumption by Country of Origin
  Communist Countries - 82-83
  Imports, Exports & Balance (table) - 30, 50, 51 (chart), 59, 123, 139, 203, also see Export-Import Balance
  Manufactured Goods - 28-30, 43, 45, 50-52, 59, 123, 139, 158, 180, 203
  Raw Fiber Equivalent - 29
  Textured Yarn - see Monthly Imports for Consumption
Industrial & Other Consumer-Type Products, Fiber Used in - 172-173, 178-179
International Organization for Standardization - 85

J

Jute
  Carpet Backing - 179
  U.S. Imports of - 171
  Use in
    Home Furnishings - 176-177
    Industrial & Other Consumer-Type Products - 178-179

L

Linen
  U.S. Imports of - 171
  Use in
    Apparel - 174
    Home Furnishings - 176
    Industrial & Other Consumer-Type Products - 178

M

Man-Made Fibers: Acetate, Acrylic, Alginate, Aramid, Azlon, Fluorocarbon (FEP & TFE), Modacrylic, Nylon, Nytril, Olefin (Polyethylene, Polypropylene), Polycarbonate, Polyester, Rayon, Saran, Spandex, Textile Glass, Vinal & Vinyon; also see individual company listings
  Definitions of above - 85, 142
  Plant Listings of above - 85-100, 142-146
  Annual Review - 9
  Broad Woven Goods Production - 22-23, 68-69, 130-131
  Capacity, Producing
    U.S. - 75, 77-78, 80-81, 84, 107, 109-110, 112-113, 115, 117, 194-196
    World - 75-81, 84, 107-113, 115

M *(Continued)*

- Man-Made Fibers *(Continued)*
  - Carpets & Rugs - 172, 176-177, 179, also see Filament Yarn & Staple+Tow Domestic Shipments
  - Consumption
    - By End Use - 169-183
    - Domestic - 28, 32-34, 183
    - Mill - 27-28, 31-34, 171-172, 201-202
    - Per Capita, U.S. - 34-35
    - Per Consuming Unit - 34-35
  - Distribution - 13
  - End Use - 169-183
  - Exports - 13-15, 28-29, 33-34, 48-49, 62-63, 82-83, 114, 124-125, 141, 148-149, 164-165, 180, 183-185
    - Quarterly - 11, 70, 134, 189
  - Import-Export Balance - 30, 33, 42, 50-51, 59, 61, 82-84, 106, 114, 123, 138-139, 158-159, 203
  - Imports - 13-15, 28-29, 33-34, 43-46, 52, 62-63, 82-83, 114, 124-125, 140, 183-185, also see monthly import tables below
  - Monthly Imports for Consumption - 5, 17, 38, 53, 60, 103, 119, 132, 150, 166, 190, 204
  - Monthly Imports for Consumption by Country of Origin - 4, 16, 39, 53, 61, 102, 118, 133, 151, 167, 191, 205
  - Monthly Review - 1, 19, 25, 41, 57, 105, 121, 137, 153, 183, 193
  - Multiple-Fiber Producers - 146
  - Plant Locations - 103, 147; also see producer directories
  - Plants - 85-100, 142-146
  - Producer
    - Affiliations & Percentage of Capital Ownership - 100-102
    - Directories
      - U.S. - 98-100, 142-146
      - World - 85-100
  - Product Plants, Number of - 102, 147
  - Production
    - U.S. - 10, 12, 14-15, 62-63, 75, 77-78, 80-84, 107, 109-110, 112-115, 117, 124-125, 184-185
    - World - 9-10, 73, 75-84, 105, 107-115
  - Quarterly
    - Review - 61, 122, 182
    - Tables - 14-15, 62-63, 124-125, 184-185
  - Shipments & Stocks
    - Cellulosic, Non-Cellulosic & Textile Glass - 13-15, 62-63, 124-125, 184-185, 194, also see Monthly Table below
    - Filament Yarn Domestic Shipments - 18, 20 (by Denier), 64, 126, 186
    - Staple+Tow Domestic Shipments - 19, 65, 127, 187
  - Tire Cord & Fabric Production - 21, 67, 128
  - Waste
    - Imports - see Imports
    - Shipments - 13
- Mill Consumption - see Cotton, Man-Made Fibers & Wool
- Mill Consumption vs. End Use - 171
- Modacrylic Fiber - see Man-Made Fibers
- Mohair - 200
- Monthly Table - 8, 24, 40, 56, 72, 104, 120, 136, 152, 168, 192, 206

N

- Narrow Fabrics - 174, 176, 178, also see Man-Made Fibers, Filament Yarn Domestic Shipments
- National Cotton Council - 160, 180
- National Wool Act of 1954 - 199
- Non-Cellulosic Fibers - see Man-Made Fibers
- Nylon Fibers - see Man-Made Fibers
- Nytril Fiber - see Man-Made Fibers

O

- Occupational Safety and Health Administration - 160
- Olefin Fibers - see Man-Made Fibers
  - World Production - 84, 115

P

- Per Capita Fiber Consumption - 34-35
- Plant Changes & Additions - 9, 26, 147
- Polycarbonate Fiber - see Man-Made Fibers
- Polyester Fiber - see Man-Made Fibers
- Polyethylene Fiber - see Olefin Fibers
- Polypropylene Fiber - see Olefin Fibers
- Prices & Price Changes
  - Cotton - 160
  - Wool - 199

R

- Rayon
  - Waste Shipments - 13
- Rayon and Acetate - also see Man-Made Fibers & Monthly Table
  - Capacity, Producing - 79-81, 111-113, 194-196
  - Carpets & Rugs - 172, 176-177, 179; also see Man-Made Fibers, Filament Yarn & Staple+Tow Domestic Shipments
  - Distribution - 13
  - End Uses - 169-183
  - Exports & Imports - see Man-Made Fibers Exports & Imports
  - Monthly Review - see Man-Made Fibers Monthly Review
  - Producer Directories - 85-100, 142-146
  - Production - 64, see Man-Made Fibers Production
    - World - 79-81, 111-113
  - Shipments & Stocks - see Man-Made Fibers Shipments & Stocks
  - Tire Cord - 21, 67, 128
- Rugs - see Carpets

S

- Saran Fiber - see Man-Made Fibers
- Silk
  - Deliveries - 36
  - Production, World - 73, 105
  - U.S. Imports of - 171
  - Use in
    - Apparel - 174
    - Home Furnishings - 176
    - Industrial & Other Consumer-Type Products - 178
- Sisal
  - U.S. Imports of - 171
  - Use in Industrial & Other Consumer-Type Products - 178
- Spandex - see Man-Made Fibers
- Spun Yarn Consumed in Broad Woven Fabric Mills - 20, 66, 129
- Subsidy Payments
  - Cotton - 156
  - Wool - 199

T

- Textile Glass Fiber - also see Man-Made Fibers
  - Broad Woven Fabrics - 20-22, 66-68, 128-130
  - Capacity, Producing - 84, 115, 194-196
  - Distribution - 13
  - Exports & Imports - 45, also see Man-Made Fiber Exports & Imports
  - Producers - 85-100, 146
  - Production
    - U.S. - 12, 15, 63, 84, 115, 125, 185, 194-196
    - World - 84, 115
  - Shipments & Stocks - 13, 15, 63, 125, 185
- Textured Yarn
  - Exports - 11, 47, 70, 134, 141, 189
  - Imports - see Monthly Imports for Consumption
- Tire Cord & Fabric Production - see under Broad Woven Fabric Production; also see Man-Made Fibers, Filament Yarn Domestic Shipments

U

- U.S. Federal Trade Commission - 85, 139, 142
- Utility Poundage of Fibers - 35, 181

V

- Vinal Fiber - see Man-Made Fibers
- Vinyon Fiber - see Man-Made Fibers

W

- Waste
  - Fiber in End Use Survey - 170
  - Imports - see Man-Made Fibers Imports
  - Shipments, Man-Made Fiber - 13
- Wool
  - Annual Review - 197
  - Broad Woven Fabrics - 20-21, 66-67, 128-129
  - Carpets & Rugs - 172, 176-177, 179, 199
  - Consumption - also see Monthly Table
    - By End Use - 169-183
    - Domestic - 28, 32-34, 155-156, 159, 183
    - Mill - 27-28, 31-34, 159, 171-172, 199, 201-202
    - Per Capita, U.S. - 34-35
    - Per Consuming Unit - 34-35
  - Content of U.S. Imports & Exports - 199
  - Disappearance in U.S. - 2, 197, 199
  - Imports & Exports - 28-30, 34, 50, 52, 59, 123, 139, 171, 180, 183, 199, 203
  - Price Support Programs - 7, 161, 199
  - Prices - 199
  - Production
    - U.S. - 197
    - World - 73, 105, 198
  - Products Labeling Act - 200
- Woolen & Worsted Fabrics - see Broad Woven Fabrics Under Wool
- World
  - Man-Made Fiber
    - Producers - 85-100
    - Survey - 73-84, 105-117
  - Ownership of Man-Made Fiber Producing Facilities - 100-102
  - Production of Fibers - 10, 73, 75-84, 105, 107-115

Y

- Yarn Consumed in Broad Woven Fabric Mills - 20, 66, 129

2/9/81 C 2850-1 U c 81

/

Textile ORGANON

FEATURING MAN-MADE FIBERS

VOL. LII • NO. 1

JANUARY
1981

MONTHLY REVIEW

1980 U.S. SHIPMENTS OF NON-CELLULOSIC FIBERS (EXCEPT SARAN AND SPANDEX) WERE 5% BELOW THE PREVIOUS YEAR'S RECORD HIGH LEVELS. ONLY ACRYLIC+MODACRYLIC AND POLYESTER STAPLE+TOW+FIBERFILL EXCEEDED 1979 LEVELS.
PGS 1 & 16

THE COSTS OF U.S. GOVERNMENT-SUPPORTED TEXTILE FIBER & PRODUCT PROGRAMS ARE DETAILED.
PGS 11-13

POLYESTER STAPLE & NYLON CARPET YARN AT RECORD LEVELS

December shipments of polyester staple+tow and BCF nylon carpet yarn were at record levels, surpassing the previous highs set in October and September 1980, respectively. Polyester staple+tow shipments at 250.0 million pounds were 8% above the old record and nylon carpet yarn deliveries, at 76.5 million pounds, were 6% above the previous record high.

NON-CELLULOSIC SHIPMENTS UP 10% IN DECEMBER

December shipments of non-cellulosic fibers (except saran and spandex) were at a new record high level of 756.7 million pounds, 3% above the previous record of 735.2 million pounds delivered during October 1979 and 10% above the 690.0 million pounds shipped last month. However, shipments for the year 1980, at 7,990.4 million pounds were 5% below the record 1979 deliveries of 8,406.6 million pounds. Only acrylic+modacrylic and polyester staple+tow shipments in 1980 exceeded those of a year earlier.

Non-cellulosic yarn+monofilaments (except saran and spandex) deliveries totaled 352.9 million pounds, 6% above November shipments and the highest since March 1980. However, for the year, deliveries of 3,818.1 million pounds were 7% less than those of 1979.

Shipments of non-cellulosic staple+tow during December 1980 were at a new record high level of 403.8 million pounds, 13% above November and 6% above the previous high of 381.2 million pounds set during October 1980. However, 1980 shipments of 4,172.3 million pounds were 3% below the 4,306.7 million pounds shipped during 1979.

NOVEMBER AND DECEMBER SHIPMENTS COMPARED

Following is a comparison of total December shipments of non-cellulosic yarn+monofilaments (except saran and spandex) with November (million pounds), and the percentage change, respectively: nylon industrial 38.1 & 40.2 & -5%; low denier industrial 3.0 & 2.8 & +7%; carpet 76.5 & 68.8 & +11%; textile 42.5 & 38.8 & +9½%; polyester industrial 28.5 & 25.1 & +14%; low denier industrial 2.0 & 2.5 & -20%; textile 104.6 & 97.3 & +7½%; olefin 57.7 & 57.2 & +1% and the total of these fibers 352.9 & 332.7 & +6%.

For non-cellulosic staple+tow+fiberfill, the corresponding data are: nylon 78.2 & 73.5 & +6½%; acrylic+modacrylic 65.1 & 59.4 & +9½%; polyester 250.0 & 213.2 & +17%; olefin+vinyon 10.5 & 11.2 & -6½% and the total 403.8 & 357.3 & +13%.

CELLULOSIC SHIPMENTS DOWN 7½% IN DECEMBER

December shipments of acetate filament yarn and rayon staple+tow totaled 54.8 million pounds, 7½% less than the 59.1 million pounds shipped during the previous month.

Shipments of acetate yarn last month totaled 21.4 million pounds, down 2% from the 21.8 million pounds delivered in November. For 1980, acetate yarn deliveries were 5½% less than 1979 shipments.

Rayon staple+tow shipments during December were 33.4 million pounds, 10% less than the 37.3 million pounds delivered during November. For the year 1980, rayon staple+tow shipments of 451.7 million pounds were 17% below the 542.5 million pounds shipped during 1979.

MONSANTO TO CEASE PRODUCTION OF POLYESTER FILAMENT YARN

Monsanto Company announced on January 14, 1981, that it will cease production of polyester filament yarn at its plants in Sand Mountain, AL, and Fayetteville, NC. Monsanto also announced that it had reached an agreement in principle to sell one of its two plants in Fayetteville to Fiber Industries, Inc., a subsidiary of Celanese Corporation.

Monsanto built the Sand Mountain facility in 1972 and acquired the Fayetteville plants from Rohm and Haas in 1977 for $50 million. In mid-1980, Monsanto announced it would mothball some 100 million pounds of its polyester filament yarn capacity. No exact date for the closures was given. Monsanto also disclosed that it would cease production of *Bidim* spunbonded polyester.

FIBER INDUSTRIES TO ACQUIRE ONE FAYETTEVILLE PLANT

Fiber Industries, Inc., a subsidiary of Celanese Corporation, has reached an agreement in principle with Monsanto Company to purchase one of Monsanto's two Fayetteville, NC, polyester filament yarn plants for $30 million.

In addition, Fiber Industries will also pay $8 million to insure continuation of research and development on Monsanto's in-line texturing technology for one year. Fiber Industries currently produces polyester filament yarn at Salisbury & Shelby, NC, and Darlington & Greenville, SC.

The Fayetteville plant, which was completed in 1976, has a capacity to produce 70 million pounds per year of polyester filament yarn. The net result of these two announcements will be to reduce the textile polyester filament yarn capacity from 1.6 billion pounds per year to 1.5 billion pounds per year when the equipment is dismantled.

CONTENTS

Monthly Review 1
Monsanto to Close Polyester Yarn Plants 2
Fiber Industries to Buy Polyester Plant 2
1981 U.S. Fiber Outlook 3
Two Speech Reviews 3
Book Review 5
Broad Woven Fabric Production 5
U.S. Cotton Crop 5
Cotton Acreage 10
Commodity Credit Corporation
  Investment in Raw Cotton 11
  Cotton & Wool Program Costs 12
  P.L. 480 & Export Credit Sales 13
Imports for Consumption 14
Imports by Country of Origin 15
Selected U.S. Textile Fiber Data 16

Textile **ORGANON**

CHARLES A. WHITEHEAD, *EDITOR*
MICHAEL R. KEMP, *ASSOCIATE EDITOR*
DOROTHY A. DRISCOLL, *CIRCULATION MGR.*
PUBLISHED BY

TEXTILE ECONOMICS BUREAU, INC.
489 FIFTH AVE., NEW YORK, N. Y. 10017

An arrangement of authentic market data, especially important to the United States Man-Made Fiber Industry, published monthly in the interest of good business.

Copyright 1981 by Textile Economics Bureau, Inc. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription rates as of January 1979 (payable in U.S. dollars or equivalent, with order):

	U.S.A.	OTHER
Annually	$100.00	$150.00
Single Issues		
June	10.00	15.00
November	10.00	15.00
All Others	8.00	12.00

All U.S. issues will be sent by first class mail and those to all other countries by airmail.

THE 1981 U.S. FIBER OUTLOOK

In a departure from our usual procedure, we have distilled all the recent statements and speeches given by U.S. man-made fiber executives on the near-term fiber outlook and present it forthwith.

The recovery of the fiber industry, begun in the 4th quarter 1980, is expected to continue through 1981, setting the stage for a better 1982. The industry expects 1981 to show modest growth, with 1982 being fairly strong. The fiber industry executives see the industry in a slow but steady growth pattern over the next few years.

The biggest problem facing the industry is its escalating raw material and fuel costs. Fiber prices have not increased by the same magnitude as raw material and operating expenses. No supply problem is foreseen for the petrochemicals needed by the industry. However, the industry's inability to fully pass along these increased costs over the past years has resulted in a low rate of return on investments.

The ability (or lack of it) to pass along these energy and raw material costs will affect future investment plans. The executives point out that a better rate of return on investments is needed for new capacity to be built. A need for increased polyester capacity is foreseen within a few years. Polyester filament yarn is looked upon as a problem area - witness Monsanto's recent announcement to withdraw from this product.

The industry expects no new generic fiber to be introduced in the short term. However, it is expected that new variants of existing fibers will be introduced over the next few years. The focus of these new variants will be on improving the processability of man-made fibers and enhancing fiber values.

To recap, the biggest problem facing the domestic fiber industry is its inability to achieve a reasonable rate of return on investments. No shortage of petrochemical feedstocks is anticipated, though their prices are expected to continue to rise. Fiber variants with improved processability, rather than new generic types, are expected to be introduced.

Recently, R. E. Pennell, Director of International Business Intellegence, Monsanto Textiles Company and Dr. David K. Barnes, Vice President, Textile Fibers Department, E.I. du Pont de Nemours & Company gave presentations concerning the fiber outlook. R. E. Pennell took a global view of the situation, whereas Dr. Barnes concentrated on the domestic scene. Their speeches have been summarized and are presented opposite.

TWO SPEECH REVIEWS

"Current and Future Developments in International Trade & Marketing of Textile Products" presented by R. E. Pennell, of Monsanto Chemical Company at a conference sponsored by *Chemical Week* in Houston, TX. November 21, 1980.

In his speech, R. E. Pennell analyzes the current trends in fiber production and consumption and makes projections to 1990. He estimates that the current world fiber per capita consumption is some 15½ pounds per person. He breaks this down into four areas: the USA at some 56 pounds per person, West Europe at some 33 pounds per person, Japan at some 44 pounds per person and the rest of the world at 10 pounds per person.

During the period 1960-1980, fiber consumption grew by 35.3 billion pounds (see Table 1). One-third of this growth was due to world population increases, while the other two-thirds was due to per capita increases. Note that 65% of all growth came from the less developed world areas.

TABLE 1
FIBER CONSUMPTION GROWTH BY AREA
1960-1980
Billion Pounds

AREA	TOTAL GROWTH	GROWTH DUE TO: POPULATION INCREASE	GROWTH DUE TO: PER CAPITA INCREASE
United States	6.0	1.5	4.5
West Europe	4.3	0.9	3.4
Japan	2.2	0.9	1.3
Rest of World	22.8	8.3	14.5
TOTAL	**35.3**	**11.6**	**23.7**

For the period 1980-1990, Mr. Pennell estimates that world fiber consumption will grow at an annual rate of 2½% to 88 billion pounds. The developed nations are expected to consume 38% of the 1990 total and the less developed countries will consume 62%. Table 2 details the 1980-1990 growth in billion pounds by area.

Mr. Pennell estimates that in the 1970s total consumption grew at a compound rate of 3.3% per year. Within this overall average, non-cellulosic fibers grew at an 8.3% rate, natural fibers grew about 1.6% per year and cellulosic fibers declined slowly. The forecast for 1990 implies a continuing growth rate for natural fibers of 1.6%, no growth for cellulosic fibers, and a halving of the previous non-cellulosic growth rate of 4.2% per year.

TABLE 2
FIBER CONSUMPTION GROWTH BY AREA
1980-1990
Billion Pounds

		GROWTH DUE TO:	
AREA	TOTAL GROWTH	POPULATION INCREASE	PER CAPITA INCREASE
United States	2.0	1.1	0.9
West Europe	1.7	0.3	1.4
Japan	0.7	0.4	0.3
Rest of World	14.7	8.4	6.3
TOTAL	19.1	10.2	8.9

Table 3 shows current production and capacity of acrylic, nylon and polyester by area. Table 4 shows Monsanto's estimates of the 1990 production and capacity of these fibers. As can be seen from this table, almost two-thirds of the capacity growth is estimated to occur in the less developed countries.

TABLE 3
PRINCIPAL NON-CELLULOSIC FIBERS
(Acrylic/Nylon/Polyester)
1980
Billion Pounds

AREA	PRODUCTION	% CAPACITY	CAPACITY
United States	7.6	87	8.7
West Europe	5.2	70	7.4
Japan	2.9	94	3.1
Rest of World	7.4	79	9.4
TOTAL	23.1	81	28.6

TABLE 4
PRINCIPAL NON-CELLULOSIC FIBERS
(Acrylic/Nylon/Polyester)
1990
Billion Pounds

AREA	PRODUCTION	% CAPACITY	CAPACITY
United States	9.8	92	10.7
West Europe	7.1	92	7.7
Japan	3.8	92	4.1
Rest of World	13.8	92	15.0
TOTAL	34.5	92	37.5

"The Fibers Outlook" presented by Dr. David K. Barnes of E. I. du Pont de Nemours & Company at a seminar sponsored by the American Apparel Manufacturers Association in New York. December 10, 1980.

The theme of Dr. Barnes' talk was that the textile economy is assuming increasingly global proportions. He summed up his message as "we must . . . become more competitive in world markets or be prepared to forego important business opportunities around the world -- ultimately, perhaps even some right here in our own country."

In assessing the current situation, Dr. Barnes said that 1980 fiber consumption was down 7% from 1979. He expected that fiber consumption would grow by 4% in 1981 and that 1982 would be a relatively strong year with growth of perhaps above 5%. However, over the period 1979 to 1982, the cumulative average annual growth would be 1%.

Through the 70s, total U.S. fiber consumption has grown at a 2.1% annual rate. This is projected to grow at a rate of 1.5% over the next five years. Dr. Barnes pointed out that over this period, non-cellulosic fiber consumption grew at a 7.5% rate, paced by penetration of markets formerly held by the natural fibers. He projected this segment to grow at a 3.3% rate over the next five years. He put this down to a slower overall growth of the market and the approaching limit to further displacement of natural fibers. Table 1 shows the growth by major market segments and Table 2 shows the growth by non-cellulosic fiber.

TABLE 1
GROWTH OF DOMESTIC CONSUMPTION BY MAJOR MARKET
(All Fibers)

	Annual Growth (%)	
	1970-79	1979-85
Home Furnishings	3.0	1.9
Industrial	1.6	1.5
Apparel	1.7	1.2
TOTAL	2.1	1.5

TABLE 2
GROWTH OF NON- CELLULOSIC FIBER CONSUMPTION
(Domestic Markets)

	Annual Growth (%)	
	1970-79	1979-85
Polyester	9.0	3.4
Nylon	7.6	2.8
Acrylic	2.7	2.7
Olefin	11.0	5.3
TOTAL	7.5	3.3

Citing Du Pont's experiences since the oil crisis first began in 1973, Dr. Barnes noted that Du Pont's fiber costs have risen almost threefold, while its fiber price index has increased only 45%. Thus, price increases have covered only 72% of raw material cost increases over this period. Dr. Barnes expects this cost escalation to continue. For internal planning purposes, he said, Du Pont was projecting crude oil prices to reach $73 a barrel by 1985. This inability to pass along raw material price increases poses problems for future investment plans.

Dr. Barnes pointed out that the decision to add new capacity must precede start-up by about three to four years. However, fiber prices must first reach a level which provides an adequate return to support reinvestment in new capacity. To duplicate the Cooper River plant, Du Pont's newest and largest polyester plant, in the mid-1980s would cost double the original mid-1970s investment. A return of 15% would be the minimum Du Pont requires to invest in such a plant in this decade.

BOOK REVIEW

MAN-MADE FIBERS FACT BOOK UPDATES

Man-Made Fiber Producers Association, Inc., 1150 Seventeenth St., NW, Washington, DC 20036. $1.00 Updates only; $1.50 Fact Book & Updates.

The Man-Made Fiber Producers Association has recently released three updates for its Fact Book, the latest of which was released in 1978. These updates cover the statistical, trademark and education sections of the Fact Book.

The statistical update provides information on plant investment, payroll, R & D expenditures, employment and fiber sales data through 1979. Data on production and consumption are also provided as is a listing of MMFPA member companies along with their plant & product listings and foreign subsidiaries.

The trademark and education sections update the MMFPA fiber trademarks and educational literature available.

BROAD WOVEN FABRIC PRODUCTION

Cotton broad woven fabric production during the first six months of 1980 showed an increase of 31.3 million linear yards, or 1½%, to 2,081.9 million linear yards from the 2,050.6 million linear yards produced in the first six months of 1979. The increase in corduroy production, up 19%, to 166.8 million linear yards during the first six months of 1980 from 140.7 million linear yards during the 1979 period and carded colored yarn fabrics and all other fabrics, up 30%, offset losses in all other fabric categories. During the first six months of 1980, as compared with the corresponding 1979 period, duck fabrics production declined 13% to 42.2 million linear yards, sheeting fabrics declined 11% to 338.1 million linear yards, print cloth fabrics declined 3½% to 740.8 million linear yards and toweling declined 2½% to 255.0 million linear yards.

Production of woolen & worsted fabrics in the first half of 1980 increased 6½%, or by 4.3 million linear yards, to 69.1 million linear yards from the 64.8 million linear yards produced during the January-June 1979 period. Men's and boys' clothing was the only category to show an increase in production from the first half of 1979 to the first half of 1980. Production increased 34% from 28.4 million linear yards in the first six months of 1979 to 38.0 million linear yards during the corresponding 1980 period. This more than offset the declines in women's and children's clothing, down 10% to 24.9 million linear yards, and nonapparel fabrics, down 29% to 6.2 million linear yards.

Production of man-made fiber broad woven goods totaled 3,457.2 million linear yards during the first six months of 1980, an increase of 61.7 million linear yards, or 2%, over the 3,395.5 million linear yards produced in the first half of 1979.

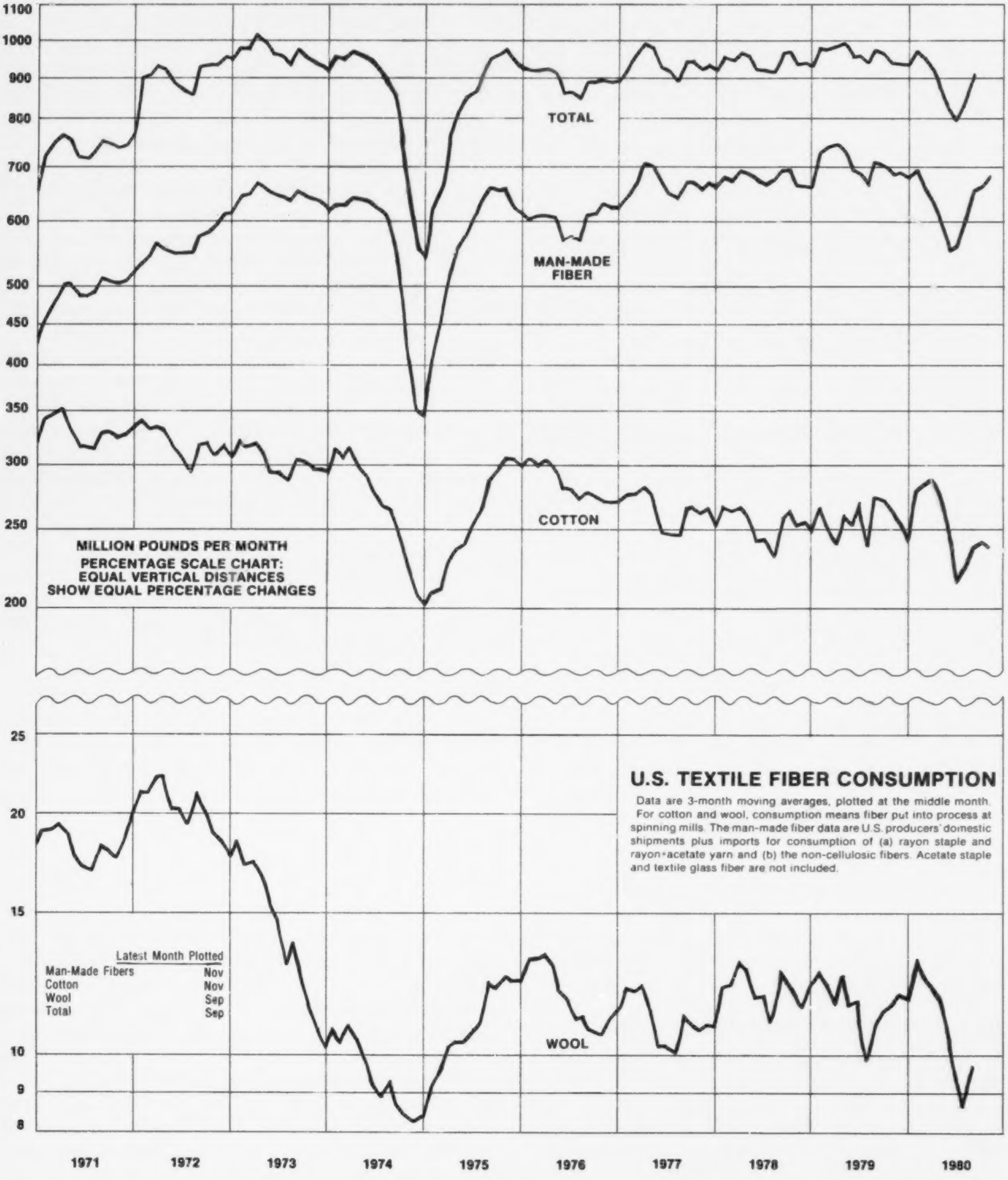
In general, production of 100% filament yarn fabrics, combination fabrics and drapery fabrics increased during the first six months of 1980 as compared with 1979, whereas spun yarn fabrics (except polyester/cotton blends), blanketing and upholstery & drapery fabrics declined.

U.S. COTTON CROP

The Crop Reporting Board of the U.S. Department of Agriculture reported that, as of January first, the 1980 (August 1980-July 1981) cotton crop was expected to total 11,124,500 bales of 480 pounds each, net weight. This is 1,687,800 bales less than the Board's original estimate of 12,812,300 bales as of August first. Thus, the 1980 crop is expected to be 3,504,800 bales, or 24% less than the 14,629,300 bales produced in the 1979 crop year.

The harvested acreage for the 1980 cotton crop is estimated at 12,988,900 acres by the Board, as of January first. This compares with a harvested acreage of 12,815,900 acres for the 1979 crop. The Crop Reporting Board estimates the yield for the 1980 cotton crop to be

(Continued on page 10)



U.S. TEXTILE FIBER CONSUMPTION

Data are 3-month moving averages, plotted at the middle month. For cotton and wool, consumption means fiber put into process at spinning mills. The man-made fiber data are U.S. producers' domestic shipments plus imports for consumption of (a) rayon staple and rayon+acetate yarn and (b) the non-cellulosic fibers. Acetate staple and textile glass fiber are not included.

MILLION POUNDS PER MONTH

PERCENTAGE SCALE CHART:
EQUAL VERTICAL DISTANCES
SHOW EQUAL PERCENTAGE CHANGES

	Latest Month Plotted
Man-Made Fibers	Nov
Cotton	Nov
Wool	Sep
Total	Sep

1100
1000
900
800
700
600
500
450
400
350
300
250
200
25
20
15
10
9
8
TOTAL
MAN-MADE FIBER
COTTON
WOOL
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980

BROAD WOVEN GOODS AND TIRE CORD PRODUCTION

TYPE OF FABRIC	1978					1979					1980	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
	MILLION LINEAR YARDS											
COTTON FABRICS	**1055.6**	**1018.9**	**912.6**	**1020.1**	**4007.2**	**1032.5**	**1018.1**	**931.5**	**943.4**	**3925.5**	**1044.3**	**1037.6**
DUCK & ALLIED FABRICS	25.0	24.2	22.9	23.8	95.9	24.7	23.6	21.9	23.4	93.6	21.9	20.3
SHEETING & ALLIED FABRICS	173.5	178.9	175.7	188.7	716.8	186.2	192.5	177.7	165.2	721.6	173.6	164.5
PRINT CLOTH YARN FABRICS	392.9	390.6	345.6	395.0	1524.1	390.4	376.2	328.1	327.6	1422.3	367.4	373.4
TOWELING, WASH- & DISHCLOTHS	129.4	124.3	119.9	124.5	498.1	133.0	128.7	118.9	125.2	505.8	130.6	124.4
FINE COTTON FABRICS	18.8	19.2	21.3	26.3	85.6	24.1	24.4	22.6	26.1	97.2	24.5	20.6
BLANKETS & BLANKETING	5.4	32.7	27.5	27.7	118.9	27.1	27.5	7.4	8.4	104.7	9.5	25.3
OTHER NAPPED FABRICS	25.6							17.2	17.1		18.4	
DRAPERY & BEDSPREAD FABRICS	21.7	24.1	20.3	16.4	82.5	14.8	13.5	13.3	12.8	54.4	12.7	11.8
UPHOLSTERY, TAPESTRY & VELVETS	5.6	5.8	5.6	5.7	22.7	4.9	5.1	4.0	5.4	19.4	5.5	2.8
CORDUROYS	74.7	70.6	55.6	64.7	265.6	70.5	70.2	69.0	75.3	285.0	86.9	79.9
CARDED COLORED YARN FABRICS	179.7	145.8	115.4	144.4	585.3	152.8	154.7	149.9	153.4	610.8	182.7	214.6
ALL OTHER FABRICS	3.3	2.7	2.8	2.9	11.7	4.0	1.7	1.5	3.5	10.7	10.6	
WOOLEN & WORSTED FABRICS[a]	**28.2**	**31.2**	**27.2**	**30.0**	**116.6**	**33.5**	**31.3**	**24.6**	**26.2**	**115.6**	**33.6**	**35.5**
MEN'S & BOYS' CLOTHING	9.8	13.8	10.7	12.5	46.8	14.7	13.7	10.3	13.2	51.9	19.2	18.8
WOMEN'S & CHILDREN'S CLOTHING	13.1	12.4	11.3	11.5	48.3	13.9	13.8	11.0	9.8	48.5	11.3	13.6
NONAPPAREL FABRICS	5.3	5.0	5.2	6.0	21.5	4.9	3.8	3.3	3.2	15.2	3.1	3.1
MAN-MADE FABRICS	**1666.9**	**1702.4**	**1539.9**	**1748.1**	**6657.3**	**1713.9**	**1681.6**	**1555.3**	**1656.5**	**6607.3**	**1776.8**	**1680.4**
100% FILAMENT YARN FABRICS												
100% RAYON	3.2	3.6	3.2	3.1	13.1	3.1	3.3	3.2	3.4	13.0	3.7	4.1
COMBINATIONS, CHIEFLY ACETATE	8.2	6.4	6.3	6.9	27.8	8.2	8.6	9.3	9.3	35.4	9.0	9.0
100% NYLON	79.9	101.6	97.8	108.6	387.9	112.0	106.5	102.1	104.6	425.2	113.0	105.4
100% POLYESTER	170.6	180.1	149.3	182.2	682.2	150.5	146.7	135.8	144.5	577.5	146.4	153.2
TEXTILE GLASS	85.2	84.4	75.2	81.8	326.6	87.2	82.8	80.0	88.2	338.2	101.1	84.8
COMBINATIONS, CHIEFLY RAYON	2.6	3.9	3.5	3.7	13.7	91.1	86.9	232.6	282.8	965.9	253.1	245.3
100% ACETATE	76.6	77.3	74.3	74.8	303.0							
OTHER 100% FILAMENT	139.5	127.1	111.0	165.4	543.0	135.1	137.4					
COMBINATIONS, CHIEFLY POLYESTER						15.2	17.1	15.4	11.6	59.3	12.4	11.4
100% SPUN YARN FABRICS & BLENDS												
100% RAYON & ACETATE	24.5	23.8	20.2	21.6	90.1	25.6	23.4	20.1	20.7	89.8	21.8	20.1
RAYON & ACETATE BLENDS WITH OTHER FIBERS	60.2	59.6	58.9	62.1	240.8	59.9	63.4	60.8	64.5	248.6	58.9	58.0
100% POLYESTER	43.0	42.4	36.7	41.5	163.6	43.2	40.2	34.8	33.2	151.4	33.5	31.5
POLYESTER WITH COTTON	664.3	665.7	599.3	674.7	2604.0	649.1	641.3	582.3	583.2	2455.9	673.1	643.9
POLYESTER WITH RAYON	80.0	87.8	83.3	96.4	347.5	113.2	112.4	90.6	91.1	407.3	110.4	98.1
POLYESTER WITH WOOL	16.1	17.7	14.8	12.2	60.8	11.6	10.2	7.7	7.4	36.9	6.6	6.2
POLYESTER WITH OTHER FIBERS	12.5	16.9	19.0	20.4	68.8	11.2	11.0	6.6	8.7	37.5	12.6	5.8
ALL OTHER	16.1	17.0	14.7	15.5	63.3	14.6	13.2	11.2	13.2	52.2	13.9	13.3
COMBINATIONS & MIXTURES[b]												
FILAMENT ACETATE WARP	11.4	12.0	11.2	11.7	46.3	12.9	13.6	12.6	11.8	50.9	12.0	13.3
FILAMENT POLYESTER WARP	48.3	45.3	35.7	34.5	163.8	34.4	35.5	32.5	40.9	143.3	41.0	29.2
OTHER FILAMENT WARP	1.9	2.5	3.2	4.6	12.2	7.9	4.7	3.2	5.9	21.7	3.4	2.1
OTHER	35.3	36.9	38.3	41.7	152.2	43.5	42.3	41.5	55.7	183.0	65.4	64.1
SPECIALTIES												
BLANKETING	18.6	18.7	19.1	18.1	74.5	17.3	18.0	16.2	16.3	67.8	16.3	17.3
UPHOLSTERY & TAPESTRY	26.3	26.6	23.5	23.9	100.3	24.3	24.0	19.8	21.7	89.8	22.7	19.6
DRAPERY FABRICS[c]	35.9	37.8	35.3	36.8	145.8	36.6	32.8	31.6	32.2	133.2	39.6	38.0
OTHER SPECIALTY[d]	6.7	7.3	6.1	5.9	26.0	6.2	6.3	5.4	5.6	23.5	6.9	5.7
TOTAL BROAD WOVEN FABRICS ABOVE	**2750.7**	**2752.5**	**2479.7**	**2798.2**	**10781.1**	**2779.9**	**2731.0**	**2511.4**	**2626.1**	**10648.4**	**2854.7**	**2753.5**
	MILLION POUNDS											
TIRE CORD & TIRE FABRICS	**170.4**	**160.0**	**154.3**	**152.8**	**637.5**	**162.5**	**148.6**	**120.4**	**134.7**	**566.2**	**138.9**	**101.6**
TIRE CORD & TIRE CORD FABRICS												
RAYON	9.4	8.3	7.5	7.4	32.6	6.7	7.2	4.8	5.1	23.8	6.1	5.3
NYLON	72.3	67.5	68.4	75.2	283.4	78.3	70.9	63.1	80.3	292.6	75.0	56.5
POLYESTER	67.9	67.1	61.9	53.2	250.1	60.6	54.4	40.6	38.9	194.5	45.3	29.9
GLASS	6.7	5.5	6.6	6.9	25.7	7.6	6.1	4.5	3.4	21.6	5.1	4.0
CHAFER & OTHER[e]	14.1	11.6	9.9	10.1	45.7	9.3	10.0	7.4	7.0	33.7	7.4	5.9

SOURCE: U.S. Census Bureau, Current Industrial Report MQ-22T.

a. Felts are not included.

b. Includes filament & spun yarn fabrics.

c. Includes bedspread fabric (except glass).

d. 100% or chiefly man-made fibers; chief fiber not specified. Also includes small poundages of silk, tie, twisted paper yarn and girdle & swimwear fabrics.

e. Includes a nominal amount of cotton and some steel.

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION

MILLION LINEAR YARDS

TYPE OF FABRIC	1978					1979					1980	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% FILAMENT YARN FABRICS	**565.8**	**584.4**	**520.6**	**626.5**	**2297.3**	**602.4**	**589.3**	**578.4**	**644.4**	**2414.5**	**638.7**	**613.3**
FILAMENT COMB., CHIEFLY ACETATE	8.2	6.4	6.3	6.9	27.8	8.2	8.6	9.3	9.3	35.4	9.0	9.0
PLIED YARN FABRICS	3.4	3.5	3.3	3.9	14.1	2.0	2.5	2.2	1.8	8.5	2.5	2.8
CREPES[a] & CREPE SATINS	4.8	2.9	3.0	3.0	13.7	6.2	6.1	7.1	6.0	26.9	5.4	5.2
ALL OTHER									1.5		1.1	1.0
100% FILAMENT RAYON	3.2	3.6	3.2	3.1	13.1	3.1	3.3	3.2	3.4	13.0	3.7	4.1
TWILLS	3.2	3.6	3.2	3.1	13.1	2.0	1.8	1.5	1.8	7.1	2.2	2.8
TAFFETAS (PLAIN WEAVE)						0.6	0.7	0.7	0.8	2.8	0.7	
ALL OTHER[b]						0.5	0.8	1.0	0.8	3.1	0.8	1.3
100% FILAMENT NYLON	79.9	101.6	97.8	108.6	387.9	112.0	106.5	102.1	104.6	425.2	113.0	105.4
TAFFETAS (PLAIN WEAVE)	48.4	64.9	62.0	69.8	245.1	65.9	60.5	59.6		255.3	57.6	58.3
50 DENIER									37.9		37.0	58.3
70 DENIER												
ALL OTHER									21.3		20.6	
MARQUISETTES, NINONS & OTHER SHEERS									2.9		3.2	
TWILLS & SATINS						4.0	3.2					2.8
INDUSTRIAL TYPE	26.9	29.6	28.0	30.7	115.2	35.0	36.9	37.2	37.3	146.4	46.6	40.0
ALL OTHER	4.6	7.1	7.8	8.1	27.6	7.1	5.9	5.3	5.2	23.5	5.6	4.3
100% FILAMENT POLYESTER	170.6	180.1	149.3	182.2	682.2	150.5	146.7	135.8	144.5	577.5	146.4	153.2
TEXTURED YARN FABRICS	113.4	119.4	115.6	124.7	473.1	113.0	95.7	89.7	93.6	392.0	87.1	96.2
NONTEXTURED YARN FABRICS												
INDUSTRIAL TYPE	10.2	9.3	7.0	7.7	34.2	10.5	10.8	10.9	12.3	44.5	11.5	9.5
MARQUISETTES, NINONS & OTHER SHEERS	39.6	44.9	21.5	41.4	147.4	27.0	40.2	35.2	38.6	141.0	47.8	47.5
ALL OTHER	7.4	6.5	5.2	8.4	27.5							
GLASS FIBER	85.2	84.4	75.2	81.8	326.6	87.2	82.8	80.0	88.2	338.2	101.1	84.8
HOUSEHOLD FABRICS	4.1	3.2	2.5	2.6	12.4	INCLUDED IN INDUSTRIAL FABRICS BELOW						
INDUSTRIAL FABRICS												
WOVEN ROVING & SCREENING	10.4	10.8	9.2	8.2	38.6	10.4	9.0	7.1	7.3	33.8	7.5	6.7
ALL OTHER	70.7	70.4	63.5	71.0	275.6	76.8	73.8	72.9	80.9	304.4	93.6	78.1
FILAMENT COMB., CHIEFLY POLYESTER	INCL. WITH OTHER 100% FILAMENT YARN					15.2	17.1	15.4	11.6	59.3	12.4	11.5
100% FILAMENT ACETATE	76.6	77.3	74.3	74.8	303.0	91.1	86.9	232.6	282.8	965.9	253.1	245.3
TAFFETAS (PLAIN WEAVE)												
75 DENIER WARP	14.2	14.1	16.5	13.3	58.1							
150 DENIER WARP	18.3	18.0	13.5	13.6	63.4							
ALL OTHER	5.0	5.5	6.3	7.7	24.5							
SATINS												
75 DENIER WARP	18.8	18.7	19.9	20.7	78.1							
ALL OTHER	5.2	5.2	6.2	6.6	23.2							
ALL OTHER[c]	15.1	15.8	11.9	12.9	55.7							
FILAMENT COMB., CHIEFLY RAYON	2.6	3.9	3.5	3.7	13.7							
OTHER 100% FILAMENT YARN FABRICS	139.5	127.1	111.0	165.4	543.0	135.1	137.4					
100% SPUN YARN & BLENDS	**935.3**	**949.6**	**866.0**	**962.5**	**3713.4**	**945.7**	**933.1**	**830.3**	**838.3**	**3547.4**	**947.0**	**894.1**
100% SPUN RAYON AND/OR ACETATE												
EXCEPT BLANKETING	24.5	23.8	20.2	21.6	90.1	25.6	23.4	20.1	20.7	89.8	21.8	20.1
TWILLS & SATINS	3.6	3.6	3.4	3.7	14.3	4.3	3.7	3.3	3.0	14.3	3.1	3.1
ALL OTHER	20.9	20.2	16.8	17.9	75.8	21.3	19.7	16.8	17.7	75.5	18.7	17.0
SPUN RAYON AND/OR ACETATE BLENDS												
EXCEPT BLANKETING	60.2	59.6	58.9	62.1	240.8	59.9	63.4	60.8	64.5	248.6	58.9	58.0
WITH COTTON	50.1	47.8	49.0	47.7	194.6	53.4	52.6	48.5	52.1	206.6	58.9	58.0
WITH OTHER FIBERS	10.1	11.8	9.9	14.4	46.2	6.5	10.8	12.3	12.4	42.0		
SPUN NYLON FABRICS	1.2	1.4	1.3	0.9	4.8	1.5	1.6	1.5	1.9	6.5	3.4	4.0
SPUN POLYESTER BLANKETING	7.2	7.6	7.8	7.8	30.4	7.3	7.7	6.6	6.9	28.5	6.5	6.5
100% SPUN POLYESTER												
EXCEPT BLANKETING	43.0	42.4	36.7	41.5	163.6	43.2	40.2	34.8	33.2	151.4	33.5	31.5

See footnotes on opposite page.

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION *(Continued)*

MILLION LINEAR YARDS

TYPE OF FABRIC	1978					1979					1980	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% SPUN YARN & BLENDS *(Continued)*												
SPUN POLYESTER BLENDS WITH COTTON EXCEPT BLANKETING	664.3	665.7	599.3	674.7	2604.0	649.1	641.3	582.3	583.2	2455.9	673.1	643.9
BATISTE	44.9	43.3	37.0	40.2	165.4	34.8	42.5	39.0	37.5	153.8	48.5	43.6
BED SHEETING	202.0	197.6	176.9	183.9	760.4	192.2	191.8	176.9	186.3	747.2	188.2	185.6
BROADCLOTH	72.8	78.2	82.3	95.5	328.8	87.1	80.8	63.7	68.3	299.9	81.2	65.6
TWILLS, INCLUDING GABARDINE	69.3	63.6	49.9	57.1	239.9	53.2	52.8	52.1	47.0	205.1	59.4	57.5
OXFORDS												
SHIRTING	14.4	14.6	8.2	8.4	45.6	4.7	4.5	4.0	3.4	16.6	4.5	6.6
OTHER (INCLUDING HOPSACKS)	8.7	7.5	7.5	7.4	31.1	6.2	6.2	6.5	8.0	26.9	8.9	8.6
POPLINS												
60% OR MORE SPUN POLYESTER	39.6	39.9	32.4	38.0	149.9	33.4	32.5	33.2	30.6	129.7	40.8	50.6
LESS THAN 60% SPUN POLYESTER	2.0	2.0	2.7	3.8	10.5	6.1	5.6	4.1	2.1	17.9		
SATEENS	25.8	24.5	26.1	30.1	106.5	26.8	24.4	13.8	17.6	82.6	40.7	44.3
VOILES	8.2	8.9	8.4	11.0	36.5	11.2	9.8	8.2	5.2	34.4		
CORDUROY	13.4	13.9	13.5	11.7	52.5	8.7	9.2	8.5	7.5	33.9		
PRINT CLOTH YARN FABRICS	87.0	86.8	76.4	87.4	337.6	97.3	100.1	100.3	92.3	390.0	114.1	108.6
YARN DYED FABRICS[d]	41.0	45.8	40.0	46.7	173.5	40.8	44.0	39.4	42.5	166.7	53.8	48.5
PIECE DYED PATTERNS	9.7	9.3	9.1	10.2	38.3	9.1	7.7	5.3	34.9	151.2	33.0	24.4
ALL OTHER[e]	25.5	29.8	28.9	43.3	127.5	37.5	29.4	27.3				
SPUN POLYESTER BLENDS WITH RAYON EXCEPT BLANKETING	80.0	87.8	83.3	96.4	347.5	113.2	112.4	90.6	91.1	407.3	110.4	98.1
60% OR MORE SPUN POLYESTER	18.7	21.3	17.8	19.6	77.4	23.4	28.8	27.0	25.7	104.9	110.4	98.1
LESS THAN 60% SPUN POLYESTER	61.3	66.5	65.5	76.8	270.1	89.8	83.6	63.6	65.4	302.4		
SPUN POLYESTER BLENDS WITH WOOL EXCEPT BLANKETING	16.1	17.7	14.8	12.2	60.8	11.6	10.2	7.7	7.4	36.9	6.5	6.2
SPUN POLYESTER WITH OTHER FIBERS EXCEPT BLANKETING	12.5	16.9	19.0	20.4	68.8	11.2	11.0	6.6	8.7	37.5	12.6	5.8
SPUN ACRYLIC & MODACRYLIC BLANKETING	11.4	11.2	11.3	10.3	44.2	10.0	10.3	9.6	9.4	39.3	9.8	10.8
OTHER SPUN ACRYLIC & MODACRYLIC	4.4	2.9	1.7	2.4	11.4	4.0	2.7	1.3	2.4	10.4	2.4	2.7
ALL OTHER 100% SPUN YARN & BLENDS	10.5	12.6	11.7	12.2	47.0	9.1	8.9	8.4	8.9	35.3	8.1	6.5
COMBINATION & MIXTURES OF FILAMENT & SPUN YARNS	**96.9**	**96.7**	**88.4**	**92.5**	**374.5**	**98.7**	**96.1**	**89.9**	**114.2**	**398.9**	**121.8**	**108.8**
FILAMENT POLYESTER WARP	48.3	45.3	35.7	34.5	163.8	34.4	35.5	32.6	40.8	143.3	41.0	29.2
POLYESTER & RAYON FILLING	24.5	20.2	35.7	34.5	163.8	34.4	35.5	32.6	40.8	143.3	41.0	29.2
OTHER SPUN YARN FILLING	23.8	25.1										
FILAMENT ACETATE WARP	11.4	12.0	11.2	11.7	46.3	12.9	13.6	12.6	11.8	50.9	12.0	13.3
FILAMENT RAYON WARP	1.9	2.5	3.2	4.6	12.2	7.9	1.1	0.4	5.9	21.7	3.4	2.1
ALL OTHER FILAMENT WARP FABRICS							3.6	2.8				
SPUN WARP & FILAMENT FILLING	26.1	28.9	30.5	32.9	118.4	32.8	30.9	31.4	43.5	138.6	51.6	50.1
COMBINATION FILAMENT & SPUN WARP OR FILLING	9.2	8.0	7.8	8.8	33.8	10.7	11.4	10.1	12.2	44.4	13.8	14.1
OTHER SPECIALTY FABRICS	**68.9**	**71.7**	**64.9**	**66.6**	**272.1**	**67.1**	**63.1**	**56.7**	**59.6**	**245.5**	**69.3**	**64.2**
UPHOLSTERY & TAPESTRY FABRICS	26.3	26.6	23.5	23.9	100.3	24.3	24.0	19.7	21.8	89.8	22.7	19.6
VELVETS & OTHER PILE FABRICS	3.0	3.2	2.9	2.8	11.9	3.2	3.2	2.8	3.0	12.2	3.7	3.7
DRAPERY FABRICS[f]	35.9	37.8	35.3	36.8	145.8	36.6	32.8	31.6	32.2	133.2	39.6	38.0
JACQUARD - WOVEN	1.8	1.8	1.7	1.6	6.9	1.2	1.6	1.5	1.6	5.9	1.6	1.0
OTHER - WOVEN	34.1	36.0	33.6	35.2	138.9	35.4	31.2	30.1	30.6	127.3	38.0	37.0
SILK FABRICS	3.7	4.1	0.2	0.2	14.1	0.2	0.2	0.2	0.2	0.8	0.7	0.3
ALL OTHER[g]			3.0	2.9		2.8	2.9	2.4	2.4	10.5	2.6	2.6
TOTAL MAN-MADE FIBER FABRICS ABOVE	**1666.9**	**1702.4**	**1539.9**	**1748.1**	**6657.3**	**1713.9**	**1681.6**	**1555.3**	**1656.5**	**6607.3**	**1776.8**	**1680.4**

SOURCE: U.S. Census Bureau, Current Industrial Report MQ-22T.

a. Includes flat, faille and canton crepes.

b. Includes marquisettes, ninons, sheers, industrials and satins.

c. Includes marquisettes, ninons, sheers, industrials and twills.

d. Includes overdyed fabrics.

e. Includes seersucker.

f. Includes bedspread fabric (except glass).

g. Includes tie, girdle & swimwear and twisted paper yarn fabrics.

YARN CONSUMED IN BROAD WOVEN FABRIC MILLS[a]

MILLION POUNDS

YARN	1978					1979					1980	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% FILAMENT												
RAYON, ACETATE & TRIACETATE	31.1	31.0	27.4	28.0	117.5	29.4	26.8	22.4	25.6	104.2	25.9	25.6
NYLON	89.2	90.4	89.7	101.5	370.8	106.8	98.7	87.4	100.3	393.2	97.7	76.9
POLYESTER	123.7	126.2	116.9	118.2	485.0	127.0	119.5	102.5	107.2	456.2	98.0	86.9
TEXTILE GLASS	37.1	37.0	35.4	37.4	146.9	42.3	41.8	39.6	42.9	166.6	53.9	40.9
OLEFIN & SARAN	56.3	59.6	55.4	73.3	244.6	65.5	67.9	66.0	94.1	293.5	74.0	67.7
ALL OTHER	10.1	7.2	4.9	5.7	27.9	4.7	4.5	4.4	4.3	17.9	4.6	4.4
TOTAL FILAMENT YARN ABOVE	**347.5**	**351.4**	**329.7**	**364.1**	**1392.7**	**375.7**	**359.2**	**322.3**	**374.4**	**1431.6**	**354.1**	**302.4**
SPUN YARN												
100% COTTON	338.3	319.8	300.7	346.7	1305.5	375.3	361.0	335.1	343.3	1414.7	364.8	353.7
100% WOOL	6.7	7.9	7.2	8.3	30.1	11.5	10.0	6.7	6.8	35.0	9.1	9.5
100% ACRYLIC	6.9	7.6	7.6	5.7	27.8	6.2	6.6	4.8	5.4	23.0	6.7	7.2
100% POLYESTER	56.4	57.6	53.8	55.7	223.5	51.0	49.1	44.6	43.1	187.8	43.3	35.4
RAYON AND/OR ACETATE[b]	36.1	36.8	34.1	39.1	146.1	36.3	35.4	30.4	29.8	131.9	29.7	22.0
POLYESTER/COTTON BLENDS[c]	336.5	326.1	287.3	307.3	1257.2	310.3	311.0	296.5	324.2	1242.0	359.6	354.0
POLYESTER/WOOL BLENDS[c]	8.0	9.3	6.5	7.1	30.9	6.6	6.1	5.3	5.7	23.7	5.1	5.6
POLYESTER/RAYON BLENDS[c]	23.2	23.1	23.7	25.9	95.9	32.9	32.6	29.3	31.3	126.1	32.8	36.2
TOTAL SPUN YARN ABOVE	**812.1**	**788.2**	**720.9**	**795.8**	**3117.0**	**830.1**	**811.8**	**752.7**	**789.6**	**3184.2**	**851.1**	**823.6**
ALL OTHER YARNS[d]	**23.6**	**23.3**	**23.8**	**22.2**	**92.9**	**22.9**	**22.2**	**21.0**	**20.5**	**86.6**	**24.7**	**19.8**
GRAND TOTAL	**1183.2**	**1162.9**	**1074.4**	**1182.1**	**4602.6**	**1228.7**	**1193.2**	**1096.0**	**1184.5**	**4702.4**	**1229.9**	**1145.8**

SOURCE: U.S. Census Bureau, Current Industrial Report MQ-22T.

a. Includes data from all types of broad woven fabric mills, i.e., cotton, man-made, woolen & worsted and tire cord & fabric mills.

b. Includes 100% spun rayon and acetate as well as rayon and/or acetate/cotton blends regardless of blend level.

c. Regardless of blend level.

d. All Other Yarns includes spun nylon, other blends, silk and paper.

(Continued from page 5)

411 pounds per acre as compared with a record 548 pounds per acre for the 1979 cotton crop.

The table following details the January first cotton crop estimate by state as compared with 1979 cotton crop production.

PRODUCTION OF COTTON IN THE U.S.

THOUSAND BALES

STATE	1980 ESTIMATED PRODUCTION	1979 FINAL PRODUCTION
Upland		
Virginia	0.2	0.2
North Carolina	51	43
South Carolina	76	116
Georgia	86	152
Florida	7.8	4
Alabama	275	324
Tennessee	200	171
Mississippi	1,150	1,437
Louisiana	455	690
Arkansas	450	606
Missouri	178	157
Texas	3,280	5,515
Oklahoma	216	522
Nevada	1.2	1.5
California	3,150	3,408
Arizona	1,345	1,280
New Mexico	105	104
Total Upland	**11,026.2**	**14,530.7**
American Pima		
Texas	25	24
California	0.1	0.1
Arizona	68	67
New Mexico	5.2	7.5
Total American Pima	**98.3**	**98.6**
Total Cotton Production	**11,124.5**	**14,629.3**

1981 COTTON CROP ACREAGE

The U.S. Department of Agriculture reported that, as of January first, 1981, domestic cotton growers are planning to plant 14,059,000 acres of upland cotton for the 1981 crop year (August 1981-July 1982). The intended 1981 crop plantings compare with a planted acreage of 14,485,300 for the 1980 cotton crop. The

COMMODITY CREDIT CORPORATION INVESTMENT IN RAW COTTON[a] AS OF SEPTEMBER 30TH

COMMODITY	1970[b]	1971[b]	1972[b]	1973[b]	1974[b]	1975[b]	1976[b]	1976	1977	1978	1979	1980
						THOUSAND BALES						
LONG STAPLE	79	39	44	10	7	30	+	+	+	16	12	2
UPLAND	3,428	649	27[illegible]	319	362	1,131	176	30	68	720	353	154
TOTAL	**3,507**	**688**	**322**	**329**	**369**	**1,161**	**176**	**30**	**68**	**736**	**365**	**156**
						THOUSAND DOLLARS[c]						
LONG STAPLE	18,904	8,971	9,219	1,944	1,259	7,296	57	4	50	6,006	4,789	830
UPLAND	376,289	70,658	19,676	24,521	32,780	135,534	24,354	3,931	13,068	147,411	75,465	35,412
TOTAL	**395,193**	**79,629**	**28,895**	**26,465**	**34,039**	**142,830**	**24,411**	**3,935**	**13,118**	**153,417**	**80,254**	**36,242**

SOURCE: *CCC Report of Financial Condition and Operations,* U.S. Department of Agriculture, Agricultural Stabilization & Conservation Service.

For earlier years' data, see October 1975, 1965, 1963 and 1958 ORGANON issues.

a. Includes the quantity and value of each commodity as pledged for outstanding loans plus that held in price support inventory.

b. As of June 30th, end of old fiscal year. See text below.

c. Book value before the deduction of reserve for losses.

acreage actually planted to the 1980 cotton crop was 357,700 acres less than had been indicated by last year's April first *Intentions to Plant* report of 14,843,000. The planted acreage to American Pima cotton for the 1980 crop year was 73,000 acres.

CCC INVESTMENT & OPERATIONS

The table above shows the Commodity Credit Corporation's investment in raw cotton for each of eleven fiscal years. The data in the first seven columns are for fiscal years ending June 30th, while those in the last five columns are for fiscal years ending September 30th. 1976 (the year the fiscal year was changed) is shown both under the old fiscal year, for comparison with earlier years' data, and the current fiscal year.

The tables on pages 12 and 13 show the relevant costs of U.S. Government programs in support of price and/or consumption of American cotton and wool since the programs began in 1933. These programs are discussed in the October and December ORGANON issues.

The CCC has had no investment in wool since 1957, i.e., the wool price support monies shown in the page 12 table are paid directly to growers.

COMMODITY CREDIT CORPORATION'S REALIZED LOSSES OR GAINS (+) ON TEXTILE FIBER & PRODUCT PROGRAMS OCTOBER 1933 TO DATE

THOUSAND DOLLARS

CCC FISCAL YEARS ENDING SEPT 30TH	SINGLE YEARS								47 YEARS	22 YEARS	5 YEARS	5 YEARS	15 YEARS
	1974[a]	1975[a]	1976[a]	1976[b]	1977[b]	1978[b]	1979[b]	1980[b]	1934-1980[b]	1934-1955	1956-1960	1961-1965	1966-1980[b]
COTTON - UPLAND & LONG STAPLE													
INVENTORY & LOAN OPERATIONS[c]	430	+2	+91	+91	+50	947	470	229	2,336,960	+232,173	1,079,751	549,967	939,415
SET-ASIDE PAYMENTS													
DIRECT PAYMENTS[d]	718,333	130,996	119,945	126.219	95,702	85,487	216,607	103,069	6,658,978	0	0	51,215	6,607,763
ACREAGE DIVERSION[e]	0	0	0	0	0	0	0	0	803,634	0	0	0	803,634
SMALL FARMS PROGRAM	0	0	0	0	0	0	0	0		0	0	0	
EQUALIZATION PROGRAM[f]	0	0	0	0	0	0	0	0	850,111	0	0	497,575	352,536
EXPORT PAYMENTS													
COTTON	0	0	0	0	0	0	0	0	836,593	102	243,226	464,982	+7
COTTON PRODUCTS	0	0	0	0	0	0	0	0			61,514	66,776	0
COTTON RESEARCH & PROMOTION	3,000	2,903	1,016	2,946	0	+13	0	0	28,836	0	0	0	28,836
TOTAL COTTON ABOVE	**721,763**	**133,897**	**120,870**	**129,074**	**95,652**	**86,421**	**217,077**	**103,298**	**11,515,112**	**+232,071**	**1,384,491**	**1,630,515**	**8,732,177**
COTTONSEED & PRODUCTS[g]	0	0	0	0	0	0	0	0	198,023	81,100	53,747	27,030	36,146
TOTAL COTTON PROGRAMS	**721,763**	**133,897**	**120,870**	**129,074**	**95,652**	**86,421**	**217,077**	**103,298**	**11,713,135**	**+150,971**	**1,438,238**	**1,657,545**	**8,768,323**
WOOL PRICE SUPPORT[h]	**101**	**14,647**	**41,577**	**41,826**	**6,823**	**28,829**	**36,085**	**30,989**	**1,252,213**	**93,428**	**288,314**	**202,682**	**667,789**
GRAND TOTAL ABOVE	**721,864**	**148,544**	**162,447**	**170,900**	**102,475**	**115,250**	**253,162**	**134,287**	**12,965,348**	**+57,543**	**1,726,552**	**1,860,227**	**9,436,112**

SOURCE: *CCC Report of Financial Condition and Operations,* U.S. Department of Agriculture.

a. Old fiscal year ending June 30th (12 calendar months in 1976).

b. New fiscal year ending September 30th (15 calendar months in 1976).

c. Inventory Operations means sales less the cost of sales and less storage, handling & transportation expense.

d. Direct Payments means cash or in-kind price support payments to farmers.

e. Diversion Payments means payments to farmers for acreage diversions under the 1966-1968 Upland programs.

f. The Equalization Program, which began April 11, 1964, was mainly replaced by other programs as of August 1, 1966.

g. Data for 1953-1955 include cottonseed meal under the Emergency Feed Program.

h. Data through 1956 include price support programs only. For 1957 forward, incentive payments are also included in the year in which they became payable.

COMMODITY CREDIT CORPORATION'S REALIZED LOSSES OR GAINS (+) AMOUNTS TO BE REIMBURSED TO THE CCC UNDER P.L. 480 & EXPORT CREDIT SALES

THOUSAND DOLLARS

CCC FISCAL YEARS ENDING SEPT 30TH	SINGLE YEARS								47 YEARS	22 YEARS	5 YEARS	5 YEARS	15 YEARS
	1974[a]	1975[a]	1976[a]	1976[b]	1977[b]	1978[b]	1979[b]	1980[b]	1934-1980[b]	1934-1955	1956-1960	1961-1965	1966-1980[b]
COTTON PROGRAMS[c] - BEGAN 1933	721,763	133,897	120,870	129,074	95,652	86,421	217,077	103,298	11,515,112	+232,071	1,384,491	1,630,515	8,732,177
PUBLIC LAW 480													
FOREIGN CURRENCIES[d]	11	0	0	0	0	0	0	0	2,239,665	10,193	848,900	902,853	477,719
DOLLAR CREDIT[e]	38,157	14,769	28,894	54,533	17,726	9,891	14,260	11,503	708,151	0	0	67,987	640,164
DISASTER OR OTHER RELIEF[f]	1	+1	0	0	0	0	0	0	19,389	999	14,361	3,540	489
TOTAL P.L. 480	38,169	14,768	28,894	54,533	17,726	9,891	14,260	11,503	2,967,205	11,192	863,261	974,380	1,118,372
EXPORT CREDIT SALES	63,362	97,435	244,879	324,863	98,546	229,823	248,765	52,027	1,634,562	0	0	68,000[g]	1,566,562
TOTAL COTTON PROGRAM, P.L. 480 & EXPORT CREDIT SALES COST	823,294	246,100	394,643	508,470	211,924	326,135	480,102	166,828	16,116,879	+220,879	2,247,752	2,672,895	11,417,111

SOURCE: *CCC Report,* same as above.

a. Old fiscal year ending June 30th (12 calendar months in 1976).

b. New fiscal year ending September 30th (15 calendar months in 1976).

c. The Cotton Programs' data are from the table above.

d. Program began in 1954.

e. Program began in 1961.

f. Program began in 1954.

g. Partially estimated.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1980 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	11 MONTHS 1980	1979
RAYON+ACETATE															
YARN - SINGLES															
TEXTURED	310.0106 & .0206	132	39	80	437	0	77	43	36	–	19	0		863	2536
OTHER	310.0130 & .0230[a]	625	675	485	548	785	648	534	584	570	707	744		6905	9717
MONOFILAMENTS	309.0310 & .0610	0	0	0	0	0	0	0	0	0	0	0		0	–
STRIPS, $1/LB & UNDER	309.2000*	0	0	0	0	0	0	0	0	0	10	0		10	81
SUBTOTAL ABOVE		**757**	**714**	**565**	**985**	**785**	**725**	**577**	**620**	**570**	**736**	**744**		**7778**	**12334**
STAPLE	309.4320 & .4325	440	190	800	596	260	408	1257	507	646	720	710		6534	13526
GROUPED FILAMENTS	309.3010 & .3110	279	146	264	183	311	213	0	156	171	288	156		2167	2313
SUBTOTAL ABOVE		**719**	**336**	**1064**	**779**	**571**	**621**	**1257**	**663**	**817**	**1008**	**866**		**8701**	**15839**
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	35	16	0	42	58	0	40	0	35	81	32		339	760
NON-CELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED - NYLON	310.0109 & .0209	44	80	1	71	42	178	78	142	1519	826	63		3044	951
- POLYESTER	310.0110 & .0210	32	0	66	82	31	79	3	16	3	10	7		329	1079
- OTHER	310.0114 & .0214	43	21	39	37	6	0	20	7	9	4	3		189	150
OTHER - NYLON	310.0149 & .0249	514	489	325	257	252	260	327	324	328	175	132		3383	5690
- POLYESTER	310.0150 & .0250	488	296	479	726	727	886	435	784	493	460	519		6293	6930
- OTHER	310.0170 & .0270[b]	134	117	141	168	91	169	67	82	92	54	203		1318	1246
MONOFILAMENTS	309.0200 & .0330[c]	497	287	639	507	357	429	273	300	176	222	144		3831	2046
STRIPS, OVER $1/LB	309.2100 & .2500*	16	17	25	32	35	11	20	12	21	12	20		221	359
SUBTOTAL ABOVE		**1768**	**1307**	**1715**	**1880**	**1541**	**2012**	**1223**	**1667**	**2641**	**1763**	**1091**		**18608**	**18451**
STAPLE - NYLON	309.4338	94	67	126	190	194	83	130	101	155	180	122		1442	2237
- POLYESTER	309.4342	236	70	62	53	163	73	187	66	121	38	186		1255	3047
- ACRYLIC	309.4345	1333	945	1095	1732	1265	1279	1311	585	797	668	1716		12726	12583
- OLEFIN	309.4346	–	3	3	0	13	41	13	46	24	1	0		144	53
- OTHER	309.4355	497	1644	1755	1123	1376	903	999	1008	1070	1650	1398		13423	14628
GROUPED FILAMENTS															
NYLON	309.3030 & .3130	90	26	71	35	103	206	94	40	92	55	117		929	659
POLYESTER	309.3040 & .3140	0	0	25	30	40	22	0	–	0	–	11		128	44
ACRYLIC	309.3050 & .3150	558	346	299	341	224	87	52	60	82	237	200		2486	2336
OTHER	309.3065 & .3165	99	8	151	42	66	81	23	25	37	77	123		732	1270
SUBTOTAL ABOVE		**2907**	**3109**	**3587**	**3546**	**3444**	**2775**	**2809**	**1931**	**2378**	**2906**	**3873**		**33265**	**36857**
WASTE, NOT ADVANCED - NYLON	309.6625	1533	1226	1299	733	1055	1056	900	711	472	903	1019		10307	11719
- POLYESTER	309.6630	202	283	452	292	301	413	313	633	562	781	748		4980	3133
- ACRYLIC	309.6645	156	67	247	315	195	239	223	124	209	233	141		2149	2194
- OTHER	309.6660	29	41	172	125	42	123	49	124	6	43	96		850	1468
NOILS & GARNETTED FIBERS	309.6000 & .7000*	0	0	0	2	0	0	2	0	0	0	0		4	3
OTHER WASTE, ADVANCED	309.7525 - .7555	20	58	24	108	51	72	94	5	3	33	94		562	900
TOTAL MAN-MADE FIBER ABOVE		**8126**	**7157**	**9125**	**8807**	**8043**	**8036**	**7487**	**6478**	**7693**	**8487**	**8704**		**88143**	**103658**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC	310.1106	0	0	0	0	0	0	0	0	0	0	0		0	2
- NON-CELLULOSIC	310.1015[d] & .1109[e]	85	104	75	91	222	97	84	24	16	77	279		1154	2017
OTHER - CELLULOSIC	310.1030 & .1135[f]	14	21	12	27	18	5	0	0	0	0	0		97	25
- NON-CELLULOSIC	310.1050 & .1070[g]	36	14	56	63	49	63	26	23	15	11	25		381	239
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	102	101	116	16	66	30	18	16	27	16	0		508	580
- OTHER	310.4015 & .4027[i]	2162	2000	2238	1703	1830	1842	1052	1226	1145	1429	1299		17926	18103
OTHER YARNS - NES, INCL. CHENILLE	310.6029 - .8000	125	177	249	216	236	356	212	154	132	91	183		2131	3653
HANDWORK YARNS & SEWING THREAD	310.9000 - .9140	245	191	263	198	152	146	125	194	185	160	213		2072	2346
SLIVER, TOPS & ROVING	309.9000	274	111	261	158	355	349	465	151	360	2	74		2560	6220
TEXTILE GLASS FIBER	309.2800 & .2900[j]	712	689	603	895	428	717	499	495	625	311	774		6748	9909
GRAND TOTAL ABOVE		**11881**	**10565**	**12998**	**12174**	**11399**	**11641**	**9968**	**8761**	**10198**	**10584**	**11551**		**121720**	**146752**

SOURCE: U.S.Census Bureau.

NES - Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & .0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1110 & .1114.

f. Also includes 310.2010 & .2110.

g. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Chiefly roving. Also includes 309.9800 & .9900.

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEM	1980											11 MONTHS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	1980	1979
RAYON+ACETATE YARN, MONOFIL & STRIPS													
CANADA	83	33	1	51	33	29	36	36	280	112	72	766	1730
MEXICO	154	116	185	109	148	146	80	163	86	41	121	1349	1389
WEST GERMANY	159	122	97	129	32	102	51	51	58	67	134	1002	3015
NETHERLANDS	34	34	29	84	318	228	162	248	17	394	417	1965	390
UNITED KINGDOM	140	153	213	562	108	163	151	57	30	29	0	1606	3746
JAPAN	143	91	0	50	146	57	57	25	36	33	0	638	417
ALL OTHER COUNTRIES[a]	44	165	40	0	0	0	40	40	63	60	0	452	1647
TOTAL R+A YARN	**757**	**714**	**565**	**985**	**765**	**725**	**577**	**620**	**570**	**736**	**744**	**7778**	**12334**
RAYON+ACETATE STAPLE+TOW													
CANADA	68	131	130	61	115	142	87	92	259	444	524	2053	1552
AUSTRIA	20	0	110	80	88	55	213	188	301	20	148	1223	5413
WEST GERMANY	18	--	38	23	7	20	0	19	5	85	0	215	382
SWEDEN	321	41	476	410	0	0	897	228	0	182	92	2647	5450
UNITED KINGDOM	202	133	107	160	341	192	0	108	0	218	37	1498	1653
JAPAN	87	29	198	45	0	135	60	28	207	59	59	907	713
ALL OTHER COUNTRIES[b]	3	2	5	0	20	77	--	0	45	0	6	158	676
TOTAL R+A STAPLE	**719**	**336**	**1064**	**779**	**571**	**621**	**1257**	**663**	**817**	**1008**	**866**	**8701**	**15839**
NON-CELLULOSIC YARN, MONOFIL & STRIPS													
ARGENTINA	43	43	57	43	36	89	0	0	0	0	0	311	58
CANADA	42	102	57	196	59	261	59	2	1441	600	54	2873	473
BELGIUM	1	24	--	4	3	1	0	0	0	0	1	34	215
FRANCE	1	14	65	65	69	125	8	85	160	71	67	730	1146
WEST GERMANY	308	265	311	395	275	351	135	95	136	290	285	2846	2746
IRELAND	72	6	8	44	7	1	2	2	2	1	--	145	474
ITALY	23	0	6	9	5	12	14	36	11	65	36	217	392
NETHERLANDS	24	1	12	12	12	61	0	0	--	0	36	158	180
UNITED KINGDOM	20	46	10	10	44	13	120	197	138	3	9	610	679
JAPAN	1202	782	1185	1094	1030	1052	872	1195	682	701	589	10384	10937
TAIWAN	0	13	0	0	0	32	5	32	0	0	0	82	415
ALL OTHER COUNTRIES[c]	32	11	4	8	1	14	8	23	71	32	14	218	736
TOTAL N.C. YARN	**1768**	**1307**	**1715**	**1880**	**1541**	**2012**	**1223**	**1667**	**2641**	**1763**	**1091**	**18608**	**18451**
NON-CELLULOSIC STAPLE+TOW													
CANADA	176	225	418	479	274	40	40	88	111	145	196	2192	1032
WEST GERMANY	1158	793	719	1065	988	990	963	334	622	650	1426	9708	9409
ITALY	99	17	134	157	165	221	97	80	51	45	66	1132	2735
ROMANIA	201	25	19	0	30	47	132	25	0	0	80	559	1677
UNITED KINGDOM	400	276	110	294	223	183	78	131	78	108	325	2206	3155
JAPAN	694	300	620	706	599	459	602	296	576	384	451	5687	8454
TAIWAN	162	1458	1491	778	1138	832	884	974	914	1556	1313	11500	9836
ALL OTHER COUNTRIES[d]	17	15	76	67	27	3	13	3	26	18	16	231	559
TOTAL N.C. STAPLE	**2907**	**3109**	**3587**	**3546**	**3444**	**2775**	**2809**	**1931**	**2378**	**2906**	**3873**	**33265**	**36857**

Other countries supplying 1980 poundages are:

a. Austria 59, Iraq 109, Korea 120, Spain 79, Sweden 41 & Yugoslavia 44.

b. Belgium 5, Egypt 2, Finland 1, France 106, India 42, Mexico 1 & USSR 1.

c. Australia 1, Austria 1, Denmark 2, Greece 15, Israel 67, Korea 10, Mexico 34, Portugal 5, Spain 62 & Switzerland 21.

d. Belgium 4, Costa Rica 1, Finland 1, France 47, Hong Kong 4, India 41, Ireland 1, Israel 11, Mexico 31, Netherlands 20, Poland 60, Spain 53 & Switzerland 7.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1980												YEAR[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1980	1979
TOTAL SHIPMENTS[b]														
MAN-MADE FIBER DATA[c]														
YARN+MONOFILAMENTS[d]														
ACETATE	27.7	27.1	25.9	29.6	26.7	24.3	25.0	24.4	23.0	25.0	21.8	21.4	301.9	320.2
NYLON[e] - INDUSTRIAL[f]	41.9	41.2	43.2	39.2	33.2	27.8	32.2	31.0	36.7	41.9	40.2	38.1	446.6	487.0
- LOW DENIER INDUSTRIAL[g]	3.1	3.1	4.1	3.1	3.1	2.2	2.5	2.5	3.3	3.0	2.8	3.0	35.8	36.0
- CARPET	66.5	61.7	65.0	64.4	51.8	49.2	51.2	58.5	72.3	71.0	68.8	76.5	756.9	768.9
- TEXTILE	41.0	37.8	42.6	42.9	36.8	31.2	29.4	31.5	35.4	37.7	38.8	42.5	447.6	485.8
POLYESTER - INDUSTRIAL[f]	29.3	26.9	26.2	23.8	21.1	19.0	18.7	21.9	25.6	28.2	25.1	28.5	294.3	365.3
- LOW DENIER INDUSTRIAL[g]	2.6	2.6	3.1	2.9	2.7	2.4	2.1	1.9	2.5	2.1	2.5	2.0	29.4	31.3
- TEXTILE	104.7	98.8	109.4	104.0	90.2	85.6	85.3	94.2	96.8	101.9	97.3	104.6	1172.8	1280.3
OLEFIN[h]	54.8	54.8	53.5	48.3	52.2	48.7	48.7	52.2	50.8	55.8	57.2	57.7	634.7	645.3
TOTAL NON-CELLULOSIC ABOVE[i]	343.9	326.9	347.1	328.6	291.1	266.1	270.1	293.7	323.4	341.6	332.7	352.9	3818.1	4099.9
STAPLE+TOW+FIBERFILL[j]														
RAYON	44.2	40.1	43.9	41.0	35.0	34.4	32.1	34.5	36.9	38.9	37.3	33.4	451.7	542.5
NYLON[e]	71.4	58.4	50.9	48.0	45.5	45.8	56.5	63.3	75.5	76.1	73.5	78.2	743.1	944.5
ACRYLIC+MODACRYLIC	66.8	72.5	72.9	67.1	65.5	67.0	54.7	59.0	58.3	62.8	59.4	65.1	771.1	770.2
POLYESTER	219.6	226.9	201.4	207.3	199.4	188.2	176.2	209.6	217.2	230.4	213.2	250.0	2539.4	2469.2
OLEFIN+VINYON	9.9	9.7	10.7	9.4	8.9	8.5	8.2	10.1	9.7	11.9	11.2	10.5	118.7	122.8
TOTAL NON-CELLULOSIC ABOVE	387.7	367.5	335.9	331.8	319.3	309.5	295.6	342.0	360.7	381.2	357.3	403.8	4172.3	4306.7
END-OF-MONTH STOCK														
YARN+MONOFILAMENTS														
ACETATE	12.8	11.9	11.1	11.5	11.3	12.8	14.6	14.5	17.7	16.6	17.2	18.4	18.4	11.8
NYLON[e] - INDUSTRIAL[f]	39.5	39.7	38.0	41.2	42.1	42.8	34.5	31.7	30.0	25.6	25.5	29.4	29.4	38.9
- LOW DENIER INDUSTRIAL[g]	4.8	4.2	3.7	4.2	4.3	4.2	3.9	3.3	3.0	3.1	2.9	3.5	3.5	5.0
- CARPET	58.9	61.7	62.6	66.7	72.2	68.9	57.7	48.2	39.3	34.3	32.0	31.6	31.6	60.1
- TEXTILE	56.3	60.2	58.0	56.1	60.2	59.8	55.7	53.8	48.8	45.4	42.4	40.1	40.1	56.4
POLYESTER - INDUSTRIAL[f]	31.5	31.6	31.2	31.8	30.7	32.5	28.1	27.4	25.1	22.2	21.9	21.3	21.3	29.3
- LOW DENIER INDUSTRIAL[g]	2.5	2.8	2.4	1.7	2.0	2.5	2.7	3.7	4.0	4.1	3.9	4.2	4.2	2.8
- TEXTILE	121.4	120.9	111.3	110.5	107.3	96.9	92.5	86.3	91.7	92.7	90.0	92.3	92.3	120.2
OLEFIN[h]	71.1	69.8	72.1	76.6	78.0	75.7	73.8	73.5	70.8	70.0	66.5	64.9	64.9	67.1
TOTAL NON-CELLULOSIC ABOVE[i]	386.0	390.9	379.3	388.8	396.8	363.3	348.9	327.9	312.7	297.4	285.1	287.3	287.3	379.8
STAPLE+TOW+FIBERFILL														
RAYON	39.5	38.2	34.3	35.3	38.6	37.3	37.6	34.4	34.8	31.3	28.2	27.2	27.2	35.6
NYLON[e]	60.9	75.1	84.3	85.0	75.5	73.3	59.3	47.7	39.2	33.3	31.1	34.8	34.8	51.0
ACRYLIC+MODACRYLIC	63.1	60.4	54.9	54.6	52.5	53.0	57.5	57.8	63.1	65.0	64.7	68.8	68.8	60.7
POLYESTER	181.7	177.2	185.6	186.8	188.1	173.9	177.7	163.3	160.5	154.8	157.0	166.5	166.5	179.2
OLEFIN+VINYON	20.1	21.1	20.6	22.2	22.8	24.1	23.4	22.5	22.6	18.0	17.1	17.2	17.2	20.2
TOTAL NON-CELLULOSIC ABOVE	325.8	333.8	345.4	348.6	336.9	324.3	317.9	291.3	285.4	271.1	269.9	287.3	287.3	311.1
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	11.6	11.6	12.6	10.4	10.3	12.0	6.0	7.5	9.7	9.6			101.3	103.3
CARPET CLASS WOOL	0.9	0.8	1.0	0.7	0.7	0.8	0.6	0.9	0.8	0.7			7.9	8.8
TOTAL RAW WOOL	12.5	12.4	13.6	11.1	11.0	12.8	6.6	8.4	10.5	10.3			109.2	112.1
RAW COTTON	270.6	252.7	287.9	280.6	280.1	237.7	207.3	221.4	263.9	237.4	288.1	232.7	3060.4	3066.4

a. Year totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 13 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 13 of the February issue for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 13 of the February issue.

3/9/81 C 8850-1 U

Textile ORGANON
FEATURING MAN-MADE FIBERS

VOL. LII • NO. 2

FEBRUARY
1981

MONTHLY REVIEW

1980 U.S. MAN-MADE FIBER OUTPUT DECREASED 8% TO 9,566 MILLION POUNDS COMPARED TO 1979. CELLULOSIC FIBERS WERE DOWN 13%, NON-CELLULOSIC FIBERS DECREASED 6½% AND TEXTILE GLASS FIBER PRODUCTION WAS DOWN 15% PG 20

WORLD 1980 OUTPUT OF MAN-MADE FIBERS (EXCEPT ACETATE CIGARETTE TOW, OLEFIN & TEXTILE GLASS FIBER) WAS ESTIMATED AT 30,550 MILLION POUNDS, 1% BELOW 1979'S RECORD HIGH 30,851 MILLION POUNDS PG 17

PRELIMINARY ESTIMATE OF 1980 WORLD MAN-MADE FIBER PRODUCTION

The Textile Economics Bureau's preliminary estimate of world man-made fiber production (except acetate cigarette tow, olefin and textile glass fiber) put the 1980 total at 30,550 million pounds, 1% below the record 1979 output of 30,851 million pounds.

Non-cellulosic staple+tow was the only category to post a year-to-year increase in output, rising ½% to 12,650 million pounds in 1980 from 12,582 million pounds in 1979. As a whole, non-cellulosic fiber output declined 1% in 1980, to 23,130 million pounds from the 23,399 million pounds produced during 1979. Cellulosic fiber production declined ½% in 1980, to 7,420 million pounds, from the previous year's output of 7,452 million pounds.

The center table opposite shows the variations in the 1979-1980 growth rates of the various fibers in the United States as compared with the rest of the world.

WORLD MAN-MADE FIBER PRODUCTION[a]
MILLION POUNDS

YEAR	RAYON+ACETATE			NON-CELLULOSIC			TOTAL FIBERS		
	YARN	STAPLE	TOTAL	YARN	STAPLE	TOTAL	YARN	STAPLE	TOTAL
1973	3,003	5,066	8,069	8,450	8,392	16,842	11,453	13,458	24,911
1974	2,871	4,916	7,787	8,344	8,161	16,505	11,215	13,077	24,292
1975	2,503	4,020	6,523	8,296	7,914	16,210	10,799	11,934	22,733
1976	2,619	4,457	7,076	9,101	9,862	18,963	11,720	14,319	26,039
1977	2,584	4,649	7,233	9,508	10,663	20,171	12,092	15,312	27,404
1978	2,572	4,742	7,314	10,147	11,973	22,120	12,719	16,715	29,434
1979	2,593	4,859	7,452	10,817	12,582	23,399	13,410	17,441	30,851
1980	2,570	4,850	7,420	10,480	12,650	23,130	13,050	17,500	30,550

USA VS. OTHER COUNTRIES MAN-MADE FIBER PRODUCTION[a]
MILLION POUNDS & *Percent*

	1979			1980			% CHANGE		
	USA	OTHER	TOTAL	USA	OTHER	TOTAL	USA	OTHER	TOTAL
RAYON+ACETATE[a]									
YARN	373	2,220	2,593	356	2,214	2,570	*-4½*	--	*-1*
STAPLE	557	4,302	4,859	450	4,400	4,850	*-19*	*+2½*	--
TOTAL	**930**	**6,522**	**7,452**	**806**	**6,614**	**7,420**	*-13*	*+1½*	*-½*
NON-CELLULOSIC[a]									
YARN	3,515	7,302	10,817	3,112	7,368	10,480	*-11*	*+1*	*-3*
STAPLE	4,165	8,417	12,582	4,036	8,614	12,650	*-3*	*+2½*	*+½*
TOTAL	**7,680**	**15,719**	**23,399**	**7,148**	**15,982**	**23,130**	*-7*	*+1½*	*-1*
TOTAL MAN-MADE ABOVE[a]									
YARN	3,888	9,522	13,410	3,468	9,582	13,050	*-11*	*+½*	*-2½*
STAPLE	4,722	12,719	17,441	4,486	13,014	17,500	*-5*	*+2½*	*+½*
TOTAL	**8,610**	**22,241**	**30,851**	**7,954**	**22,596**	**30,550**	*-7½*	*+1½*	*-1*

WORLD PRODUCTION[a] BY REGION
MILLION POUNDS

	1977		1978		1979		1980	
	CELL	NON-CELL	CELL	NON-CELL	CELL	NON-CELL	CELL	NON-CELL
WEST EUROPE	1,792	4,750	1,783	5,167	1,826	5,249	1,820	4,940
EAST EUROPE	2,497	2,221	2,507	2,355	2,493	2,416	2,550	2,550
USA	888	6,696	904	7,094	930	7,680	806	7,148
OTHER AMER.	320	1,300	309	1,405	335	1,591	350	1,700
JAPAN	838	2,823	858	3,034	892	3,005	950	3,060
OTH. A., A. & O.	898	2,381	953	3,065	974	3,458	944	3,732
TOTAL	**7,233**	**20,171**	**7,314**	**22,120**	**7,452**	**23,399**	**7,420**	**23,130**

a. Except acetate cigarette tow, olefin and textile glass fiber.

WORLD PRODUCTION BY AREA

The lowest of the three tables on the front page of this issue shows world production of man-made fibers for 1977-1980 as divided by producing region and product. It is of interest to note that in the two largest fiber producing areas, the USA and West Europe, both cellulosic and non-cellulosic fiber production declined, whereas in all other areas fiber production increased except for a decline in cellulosic fiber production in the Other Africa, Asia & Oceania countries.

Following is a comparison of 1980 and 1979 fiber production (million pounds) by area and the percentage change, respectively: West Europe 6,760 & 7,077 & -4½%; East Europe 5,100 & 4,909 & +4%; USA 7,954 & 8,610 & -7½%; Other Americas 2,050 & 1,926 & +6½%; Japan 4,010 & 3,897 & +3%; Other Africa, Asia & Oceania 4,676 & 4,432 & +5½% and the World total 30,550 & 30,851 & -1%.

1980 MAN-MADE FIBER PRODUCTION DECLINES 8%

Last year, U.S. production of man-made fibers totaled 9,565.8 million pounds, 8% below the record 10,380.3 million pounds produced during 1979. Cellulosic production totaled 806.0 million pounds during 1980, down 13% from the 929.8 million pounds produced during the previous year. Non-cellulosic fiber production, at 7,892.5 million pounds, was 6½% below that produced during 1979 and textile glass fiber output declined 15% in 1980 to 867.3 million pounds.

The only fibers to show an increase in 1980 production over 1979 output were polyester staple+tow+fiberfill (up 2½%), acrylic+modacrylic staple+tow (up 2½%) and saran & spandex yarn+monofilaments (up 5½%). These fibers all achieved new record high production levels.

NON-CELLULOSIC OUTPUT DECLINED 6½% IN 1980

Production of non-cellulosic fibers declined 6½% last year, to 7,892.5 million pounds, from the record 8,436.6 million pounds produced in 1979. Last year's output of non-cellulosic yarn+monofilaments totaled 3,744.3 million pounds, a decline of 10% from the record 4,154.3 million pounds produced during 1979. Non-cellulosic staple+tow+fiberfill production during 1980 declined 3% to 4,148.2 million pounds from the record 4,282.3 million pounds produced in 1979.

CONTENTS

1980 World Production 17

Tables of U.S. Man-Made Fiber Data

Man-Made Fiber Production 20
Man-Made Fiber Distribution 21
Producers' Waste Shipments 20
Quarterly Man-Made Fiber Data 22-23
Shipments by Trade or End Use 24-25
Filament Yarn Shipments by Denier 26
Broad Weaving Industry Data 26-27
Imports by Country of Origin 28
Imports for Consumption 29
U.S. Exports of Man-Made Fibers 30
1980 Selected Textile Fiber Data 31
1981 Selected Textile Fiber Data 32

Textile ORGANON

CHARLES A. WHITEHEAD, *EDITOR*
MICHAEL R. KEMP, *ASSOCIATE EDITOR*
DOROTHY A. DRISCOLL, *CIRCULATION MGR.*
PUBLISHED BY
TEXTILE ECONOMICS BUREAU, INC.
489 FIFTH AVE., NEW YORK, N. Y. 10017

An arrangement of authentic market data, especially important to the United States Man-Made Fiber Industry, published monthly in the interest of good business.

Copyright 1981 by Textile Economics Bureau, Inc. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription rates as of January 1979 (payable in U.S. dollars or equivalent, with order):

	U.S.A.	OTHER
Annually	$100.00	$150.00
Single Issues		
June	10.00	15.00
November	10.00	15.00
All Others	8.00	12.00

All U.S. issues will be sent by first class mail and those to all other countries by airmail.

COMPARISON OF 1980 AND 1979 PRODUCTION OF NON-CELLULOSIC FIBERS

Following is a by-fiber comparison of 1980 and 1979 production of non-cellulosic fibers and the percentage change thereof.

For yarn+monofilaments the respective data (in million pounds) are: nylon+aramid 1,631.1 & 1,781.6 & -8½%, polyester 1,462.0 & 1,715.6 & -15%, olefin 632.2 & 639.1 & -1%, saran & spandex 19.0 & 18.0 & +5½% and total non-cellulosic yarn+monofilaments 3,744.3 & 4,154.3 & -10%.

For staple+tow+fiberfill the corresponding data are: nylon+aramid 726.6 & 938.8 & -23%, acrylic+modacrylic 779.2 & 761.1 & +2½%, polyester 2,526.7 & 2,462.2 & +2½%, olefin+vinyon 115.7 & 120.2 & -3½% and total non-cellulosic staple+tow+fiberfill 4,148.2 & 4,282.3 & -3%.

1980 CELLULOSIC FIBER PRODUCTION DOWN 13%

In 1980, the United States produced 806.0 million pounds of cellulosic fibers, down 13% from the 929.8 million pounds produced in 1979 and the lowest since the 1975 output of 749.0 million pounds.

All categories of cellulosic fibers declined, except acetate staple+tow which remained unchanged at 7.0 million pounds. Rayon yarn+monofilaments production declined 17% in 1980 to 47.2 million pounds. Output of acetate yarn fell by 2½% last year to 308.5 million pounds and rayon staple+tow production during 1980 declined 19% to 443.3 million pounds.

DOMESTIC CONSUMPTION OF MAN-MADE FIBERS DECLINED 7% DURING 1980

Domestic consumption of man-made fibers, i.e., domestic shipments plus imports for consumption, totaled 8,676.9 million pounds in 1980. Thus 1980 domestic consumption declined 7% from the 1979 figure of 9,315.6 million pounds. All categories of man-made fibers, except saran & spandex yarn+monofilaments and acrylic+modacrylic staple+tow, registered declines.

Cellulosic yarn+monofilaments domestic consumption fell by 9% to 325.0 million pounds in 1980 and cellulosic staple+tow domestic consumption, at 408.0 million pounds, was 12% below 1979 levels. Domestic consumption of non-cellulosic yarn+monofilaments, at 3,551.6 million pounds, were 7% below last year's levels, while consumption of non-cellulosic staple+tow+fiberfill declined 6½%, to 3,517.9 million pounds, during 1980. Textile glass fiber consumption declined 5% to a 1980 total of 874.4 million pounds.

U.S. MAN-MADE FIBER EXPORTS INCREASED BY 6½% in 1980

According to the U.S. Census Bureau, exports of man-made fibers in 1980 totaled 1,362,715 thousand pounds, an increase of 6½% from the 1,281,242 thousand pounds exported during 1979.

Exports of cellulosic yarn+monofilaments decreased 13% in 1980 to 26,930 thousand pounds and those of cellulosic staple+tow declined 33% to 71,072 thousand pounds from the 106,507 thousand pounds exported during 1979. Exports of non-cellulosic yarn+monofilaments increased 22% to 355,323 thousand pounds in 1980 while exports of non-cellulosic staple+tow increased 11% to 732,473 thousand pounds for the year 1980.

QUARTERLY MAN-MADE FIBER DATA

The tables on pages 22 & 23 detail U.S. man-made fiber producers' production, domestic shipments, direct export shipments and stock of man-made fibers (except rayon and saran & spandex yarn+monofilaments and acetate staple+tow) on a quarterly basis for the most recent years.

The difference between the exports reported by the U.S. Census Bureau and those reported on pages 22 & 23 are due to exports other than those shipped directly by the fiber producer. For example, if the fiber producer sells filament yarn to a texturizer to be textured, it is reported as a domestic shipment. Then, after texturing, if the texturizer exports the textured yarn, the Census Bureau reports it as an export shipment. Thus, the exports reported by the U.S. Census Bureau consist of both direct exports from the fiber producer and indirect exports from throwsters, texturizers, etc.

SHIPMENTS BY TRADE OR END USE

The tables on pages 24 & 25 present details of domestic filament yarn and staple+tow shipments by primary trade or end use for recent periods.

A comparison of 1980 filament yarn domestic shipments with 1979 shows the biggest year-to-year declines were registered by the tire trades. Polyester yarn shipments fell by 29% to 161.0 million pounds and nylon yarn shipments fell by 23% to 220.3 million pounds. Polyester yarn shipments to the other circular

(Continued on page 22)

MAN-MADE FIBER PRODUCTION

MILLION POUNDS

YEAR	RAYON+ACETATE									NON-CELLULOSIC FIBER[c-h]			TOTAL TO THE LEFT	TEX-TILE GLASS FIBER	TOTAL MAN-MADE FIBER
	RAYON YARN[a]			ACET YARN[b]	TOTAL YARN	STAPLE+TOW			TOTAL R+A						
	INDUS	TEXT	TOTAL			RAYON	ACET[b]	TOTAL		YARN	STAPLE	TOTAL			
1960	279.3	147.0	426.3	228.2	654.5	314.0	60.0	374.0	1028.5	437.4	239.8	677.2	1705.7	177.0	1882.7
1961	251.0	141.7	392.7	249.0	641.7	400.5	53.0	453.5	1095.2	497.2	253.7	750.9	1846.1	149.3	1995.4
1962	272.0	148.4	420.4	305.7	726.1	500.0	46.0	546.0	1272.1	627.4	345.5	972.9	2245.0	190.3	2435.3
1963	246.0	154.2	400.2	309.5	709.7	579.1	60.0	639.1	1348.8	712.8	443.2	1156.0	2504.8	191.9	2696.7
1964	258.2	153.4	411.6	365.9	777.5	594.3	60.0	654.3	1431.8	847.6	559.1	1406.7	2838.5	239.5	3078.0
1965	264.6	169.2	433.8	391.2	825.0	648.0	54.0	702.0	1527.0	997.7	782.4	1780.1	3307.1	282.3	3589.4
1966	235.8	169.7	405.5	394.3	799.8	659.2	60.0	719.2	1519.0	1164.7	918.1	2082.8	3601.8	332.4	3934.2
1967	161.2	147.9	309.1	425.6	734.7	603.4	50.0	653.4	1388.1	1215.4	1137.9	2353.3	3741.4	308.8	4050.2
1968	202.4	162.9	365.3	439.9	805.2	739.1	50.0	789.1	1594.3	1662.1	1567.3	3229.4	4823.7	402.7	5226.4
1969	168.6	150.6	319.2	455.2	774.4	758.8	43.0	801.8	1576.2	1766.9	1761.0	3527.9	5104.1	501.4	5605.5
1970	146.4	121.2	267.6	463.2	730.8	607.4	35.0	642.4	1373.2	1793.4	1792.8	3586.2	4959.4	467.3	5426.7
1971	180.4	123.0	303.4	449.3	752.7	611.7	26.5	638.2	1390.9	2187.9	2104.9	4292.8	5683.7	468.2	6151.9
1972	146.7	105.0	251.7	401.4	653.1	713.2	28.0	741.2	1394.3	2773.3	2582.4	5355.7	6750.0	571.6	7321.6
1973	121.7	76.4	198.1	437.2	635.3	696.7	25.0	721.7	1357.0	3339.6	2969.8	6309.4	7666.4	688.0	8354.4
1974	112.9	58.9	171.8	361.6	533.4	645.4	20.0	665.4	1198.8	3443.0	2780.6	6223.6	7422.4	682.9	8105.3
1975	46.1	18.7	64.8	301.3	366.1	370.9	12.0	382.9	749.0	3208.9	2676.8	5885.7	6634.7	546.5	7181.2
1976	52.3	15.3	67.6	286.9	354.5	475.4	11.0	486.4	840.9	3306.4	3320.2	6626.6	7467.5	676.0	8143.5
1977	55.3	15.4	70.7	282.0	352.7	527.0	8.0	535.0	887.7	3674.1	3653.8	7327.9	8215.6	786.7	9002.3
1978	47.0	15.0	62.0	300.9	362.9	534.6	7.0	541.6	904.5	3830.3	3952.7	7783.0	8687.5	923.3	9610.8
1979	41.7	15.1	56.8	316.6	373.4	549.4	7.0	556.4	929.8	4154.3	4282.3	8436.6	9366.4	1014.4	10380.8
1980	32.2	15.0	47.2	308.5	355.7	443.3	7.0	450.3	806.0	3744.3	4148.2	7892.5	8698.5	867.3	9565.8

a. Rayon yarn includes industrial (high tenacity) yarn and textile (regular+intermediate tenacity) yarn+monofilaments. Beginning January 1965, the high tenacity rayon yarn of 900 denier & finer is tabulated with regular tenacity yarn.

b. Acetate includes diacetate and triacetate. The acetate staple+tow data do not include the poundages thereof produced for cigarette filtration purposes.

c. Nylon includes aramid.

d. Olefin includes polypropylene yarn+monofilaments+spunbonded+film fiber and polyethylene monofilaments+film fiber.

e. Ester means polyester.

f. Other yarn is chiefly saran and spandex in recent years.

g. Acrylic includes modacrylic.

h. Other staple+tow includes only olefin and vinyon for recent years.

Earlier years' data are on pages 8 & 9 of the January 1962 ORGANON Base Book issue and page 4 of the January-February 1971 issue.

NON-CELLULOSIC FIBER PRODUCTION DETAIL

MILLION POUNDS

YEAR	YARN+MONOFILAMENTS					STAPLE+TOW+FIBERFILL				
	NYLON[c]	OLEFIN[d]	ESTER[e]	OTHER[f]	TOTAL	NYLON[c]	ACRYL[g]	ESTER[e]	OTHER[h]	TOTAL
1960	384.8	13.7	38.9		437.4	26.8	135.7	75.2	2.1	239.8
1961	441.7	18.9	36.6		497.2	34.2	140.1	77.4	2.0	253.7
1962	562.0	24.3	41.1		627.4	50.7	170.0	119.6	5.2	345.5
1963	630.0	30.3	52.5		712.8	61.5	209.7	166.6	5.4	443.2
1964	736.1	45.4	66.1		847.6	69.3	287.7	192.4	9.7	559.1
1965	846.1	65.6	86.0		997.7	93.7	368.4	305.2	15.1	782.4
1966	961.4	100.8	102.5		1164.7	118.7	352.9	409.3	37.2	918.1
1967	944.6	118.0	152.8		1215.4	124.6	397.7	568.1	47.5	1137.9
1968	1188.4	206.6	267.1		1662.1	162.1	521.0	827.3	56.9	1567.3
1969	1188.0	202.7	376.2		1766.9	223.2	533.0	938.8	66.0	1761.0
1970	1137.9	200.4	455.1		1793.4	216.8	491.9	1022.3	61.8	1792.8
1971	1237.9	261.8	688.2		2187.9	357.4	545.2	1142.5	59.8	2104.9
1972	1463.9	346.5	951.7	11.2	2773.3	510.6	625.9	1376.2	69.7	2582.4
1973	1582.8	423.8	1319.8	13.2	3339.6	591.9	742.1	1568.0	67.8	2969.8
1974	1560.0	463.1	1408.0	11.9	3443.0	563.7	631.2	1517.5	68.2	2780.6
1975	1295.4	442.9	1458.9	11.7	3208.9	561.9	524.6	1536.2	54.1	2676.8
1976	1372.5	515.7	1404.7	13.5	3306.4	702.7	621.0	1935.6	60.9	3320.2
1977	1512.4	554.1	1592.1	15.5	3674.1	813.7	708.8	2050.1	81.2	3653.8
1978	1654.0	596.6	1563.7	16.0	3830.3	895.9	725.7	2235.8	95.3	3952.7
1979	1781.6	639.1	1715.6	18.0	4154.3	938.8	761.1	2462.2	120.2	4282.3
1980	1631.1	632.2	1462.0	19.0	3744.3	726.6	779.2	2526.7	115.7	4148.2

PRODUCERS' WASTE SHIPMENTS

MILLION POUNDS

YEAR	RAYON	NON-CELL
1960	33.3	29.9
1961	32.8	32.3
1962	34.5	37.7
1963	40.2	42.0
1964	49.0	45.9
1965	51.5	55.2
1966	44.6	66.5
1967	36.1	92.8
1968	44.3	122.3
1969	39.4	140.3
1970	34.5	136.3
1971	36.3	157.8
1972	38.5	202.7
1973	36.8	274.8
1974	29.9	246.4
1975	13.2	228.7
1976	14.7	262.3
1977	18.5	291.0
1978	15.7	263.9
1979	17.2	236.4
1980	13.5	194.4

MAN-MADE FIBER DISTRIBUTION

MILLION POUNDS

RAYON & ACETATE

	YARN+MONOFILAMENTS							STAPLE+TOW							TEXTILE GLASS				
	PRODUCERS' SHIPMENTS							PRODUCERS' SHIPMENTS							PRODUCERS' SHIPMENTS				
	TO DOM. CONSUMERS[ab]							TO DOM. CONSUMERS											
YEAR	RAYON	ACET	TOTAL	EX-PORTS	TOTAL	IM-PORTS	DO-MESTIC CONS	RAYON	ACET[b]	TOTAL	EX-PORTS	TOTAL	IM-PORTS	DO-MESTIC CONS	DO-MESTIC	EX-PORTS	TOTAL	IM-PORTS	DO-MESTIC CONS
1960	401.8	220.6	622.4	23.2	645.6	2.5	624.9	314.4	57.0	371.4	3.7	375.1	59.1	430.5	148.2	6.5	154.7	--	148.2
1961	385.2	240.8	626.0	33.1	659.1	1.8	627.8	411.8	51.4	463.2	2.8	466.0	37.0	500.2	147.2	6.0	153.2	--	147.2
1962	384.6	281.7	666.3	44.9	711.2	2.6	668.9	499.2	44.4	543.6	3.8	547.4	50.9	594.5	177.5	6.6	184.1	--	177.5
1963	380.7	305.0	685.7	39.7	725.4	1.7	687.4	578.8	57.5	636.3	4.9	641.2	116.5	752.8	182.0	8.5	190.5	--	182.0
1964	399.6	363.8	763.4	28.5	791.9	5.2	768.6	575.7	57.5	633.2	7.7	640.9	114.5	747.7	220.6	11.8	232.4	--	220.6
1965	409.3	366.4	775.7	22.1	797.8	6.8	782.5	636.3	54.4	690.7	8.4	699.1	77.2	767.9	268.2	18.7	286.9	--	268.2
1966	389.6	387.5	777.1	15.2	792.3	3.7	780.8	636.5	59.0	695.5	9.4	704.9	114.8	810.3	314.2	7.9	322.1	1.1	315.3
1967	311.1	421.0	732.1	18.2	750.3	7.7	739.8	625.9	49.5	675.4	4.3	679.7	85.0	760.4	302.7	8.2	310.9	1.0	303.7
1968	353.5	426.4	779.9	17.6	797.5	14.6	794.5	720.0	48.5	768.5	5.4	773.9	125.0	893.5	383.7	12.1	395.8	0.1	383.8
1969	294.7	444.7	739.4	16.0	755.4	4.1	743.5	737.9	42.3	780.2	5.0	785.2	91.2	871.4	460.4	17.7	478.1	0.1	460.5
1970	251.1	444.8	695.9	38.3	734.2	3.7	699.6	599.9	34.3	634.2	7.8	642.0	80.6	714.8	404.2	29.9	434.1	0.7	404.9
1971	297.0	432.3	729.3	33.2	762.5	5.2	734.5	643.6	26.2	669.8	3.7	673.5	81.3	751.1	464.9	17.4	482.3	1.8	466.7
1972	246.9	385.9	632.8	23.9	656.7	10.8	643.6	690.7	27.7	718.4	2.0	720.4	51.3	769.7	559.8	17.5	577.3	9.4	569.2
1973	197.6	392.3	589.9	60.7	650.6	18.1	608.0	709.5	25.0	734.5	14.7	749.2	47.4	781.9	663.0	36.5	699.5	13.0	676.0
1974	153.1	320.3	473.4	48.8	522.2	9.2	482.6	569.5	19.7	589.2	36.0	625.2	38.7	627.9	619.3	38.0	657.3	11.5	630.8
1975	74.9	293.7	368.6	32.9	401.5	9.2	377.8	373.4	12.0	385.4	20.2	405.6	37.9	423.3	524.6	18.3	542.9	8.9	533.5
1976	65.1	249.4	314.5	40.3	354.8	25.1	339.6	461.0	11.0	472.0	35.6	507.6	43.2	515.2	663.3	35.0	698.3	14.3	677.6
1977	68.1	259.4	327.5	25.2	352.7	23.5	351.0	444.9	8.0	452.9	62.3	515.2	57.8	510.7	769.3	28.9	798.2	22.0	791.3
1978	63.0	274.6	337.6	27.6	365.2	25.7	363.3	459.2	7.0	466.2	96.5	562.7	41.1	507.3	864.9	27.7	892.6	21.8	886.7
1979	55.0	288.4	343.4	31.8	375.2	13.3	356.7	442.4	7.0	449.4	100.1	549.5	16.5	465.9	912.2	48.3	960.5	10.4	922.6
1980	47.5	269.2	316.7	32.7	349.4	8.3	325.0	390.7	7.0	397.7	61.0	458.7	10.3	408.0	867.1	48.6	915.7	7.3	874.4

NON-CELLULOSIC

	YARN+MONOFILAMENTS									STAPLE+TOW+FIBERFILL								
	PRODUCERS' SHIPMENTS									PRODUCERS' SHIPMENTS								
	TO DOMESTIC CONSUMERS									TO DOMESTIC CONSUMERS								
YEAR	NYLON[c]	OLEFIN[d]	ESTER[e]	OTH[f]	TOTAL	EX-PORTS	TOTAL	IM-PORTS	DO-MESTIC CONS	NYLON[c]	ACRYL[g]	ESTER[e]	OTH[h]	TOTAL	EX-PORTS	TOTAL	IM-PORTS	DO-MESTIC CONS
1960	347.8	13.2	37.6		398.6	32.3	430.9	2.2	400.8	27.7	116.0	64.0	2.5	210.2	26.2	236.4	2.4	212.6
1961	419.0	17.5	36.1		472.6	25.2	497.8	4.7	477.3	36.0	123.8	70.9	3.0	233.7	22.3	256.0	3.2	236.9
1962	503.1	22.5	38.1		563.7	41.1	604.8	7.0	570.7	47.5	147.1	115.3	3.6	313.5	20.3	333.8	13.9	327.4
1963	570.9	29.1	48.9		648.9	43.2	692.1	6.3	655.2	54.3	201.5	150.7	5.0	411.5	18.3	429.8	8.8	420.3
1964	685.9	44.2	63.6		793.7	62.8	856.5	3.7	797.4	68.3	263.2	177.5	8.6	517.6	34.1	551.7	19.2	536.8
1965	781.9	60.1	77.2		919.2	46.1	965.3	8.5	927.7	85.1	324.5	290.4	13.5	713.5	32.3	745.8	52.1	765.6
1966	880.0	94.6	81.4	13.4	1069.4	54.4	1123.8	12.5	1081.9	108.8	328.0	372.1	33.1	842.0	39.7	881.7	61.0	903.0
1967	907.4	116.1	133.0	11.8	1168.3	58.6	1226.9	16.4	1184.7	120.6	371.2	537.2	40.5	1069.5	60.3	1129.8	63.2	1132.7
1968	1085.8	199.0	226.7	10.5	1522.0	84.5	1606.5	33.7	1555.7	157.2	467.1	756.1	52.4	1432.8	72.2	1505.0	89.8	1522.6
1969	1063.4	188.6	353.6	10.9	1616.5	84.9	1701.4	32.5	1649.0	202.7	473.4	883.3	61.7	1621.1	100.3	1721.4	67.5	1688.6
1970	1052.6	187.0	433.0	10.0	1682.6	82.3	1764.9	120.8	1803.4	201.2	430.7	992.9	57.3	1682.1	108.6	1790.7	57.7	1739.8
1971	1206.7	246.5	636.8	10.1	2100.1	78.5	2178.6	234.4	2334.5	330.1	463.7	1111.4	58.9	1964.1	130.5	2094.6	93.3	2057.4
1972	1430.6	312.4	935.4	11.4	2689.8	87.4	2777.2	224.5	2914.3	476.6	536.0	1286.9	63.6	2363.1	174.1	2537.2	103.7	2466.8
1973	1544.7	395.4	1320.5	13.1	3273.7	127.4	3401.1	140.1	3413.8	586.8	662.0	1530.3	69.3	2848.4	233.0	3081.4	112.8	2961.2
1974	1408.8	426.3	1295.2	12.0	3142.3	140.6	3282.9	92.1	3234.4	487.8	514.9	1388.1	59.7	2450.5	195.3	2645.8	73.2	2523.7
1975	1289.7	436.1	1477.0	12.0	3214.8	104.5	3319.3	53.8	3268.6	557.9	467.3	1473.6	54.7	2553.5	209.9	2763.4	55.2	2608.7
1976	1279.3	482.0	1373.9	12.0	3147.2	138.5	3285.7	64.0	3211.2	665.4	517.3	1777.2	58.6	3018.5	247.4	3265.9	67.3	3085.8
1977	1396.2	539.6	1510.6	15.0	3461.4	159.0	3620.4	92.5	3553.9	791.7	619.8	1880.3	81.3	3373.1	270.0	3643.1	52.9	3426.0
1978	1539.1	579.7	1507.6	15.5	3641.9	197.5	3839.4	52.2	3694.1	876.4	571.6	1967.5	90.0	3505.5	411.4	3916.9	60.5	3566.0
1979	1631.3	624.2	1525.1	17.0	3797.6	319.3	4116.9	20.0	3817.6	913.2	546.6	2134.4	119.3	3713.5	593.2	4306.7	39.3	3752.8
1980	1538.9	611.7	1363.4	18.0	3532.0	301.8	3833.8	19.6	3551.6	711.2	585.3	2071.0	115.0	3482.5	689.8	4172.3	35.4	3517.9

Domestic consumption (CONS) means the sum of producers' domestic shipments and imports for consumption.

Imports for consumption (IMPORTS): yarn+monofil includes yarn singles, monofilaments & strips; staple+tow includes grouped filaments. Not included here are plied, spun, & handwork yarns; sewing thread; sliver, tops & roving and waste.

a-h. See these lettered footnotes on the opposite page.

Non-cellulosic data from 1940 are on page 5 of the January-February 1971 issue. Rayon+acetate data from 1911 are on page 9 of the January 1962 ORGANON Base Book.

QUARTERLY MAN-MADE FIBER DATA
MILLION POUNDS

ITEM	1978					1979					1980				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
								YA[illegible]ONOFILAMENTS[a]							
ACETATE															
PRODUCTION	71.5	76.3	76.9	76.2	300.9	78.2	78.4	78.8	81.2	316.6	80.0	82.1	77.5	68.9	308.5
SHIPMENTS - DOMESTIC	68.3	71.1	69.0	66.2	274.6	71.8	72.2	72.0	72.4	288.4	72.9	71.9	64.7	59.7	269.2
- EXPORT	6.8	6.6	7.0	7.2	27.6	9.4	7.3	6.7	8.4	31.8	7.8	8.7	7.7	8.5	32.7
- TOTAL	75.1	77.7	76.0	73.4	302.2	81.2	79.5	78.7	80.8	320.2	80.7	80.6	72.4	68.2	301.9
ENDING STOCK	13.1	11.7	12.6	15.4		12.4	11.3	11.4	11.8		11.1	12.6	17.7	18.4	
NYLON+ARAMID															
PRODUCTION	391.7	413.2	418.4	430.7	1654.0	442.5	440.9	439.0	459.2	1781.6	453.1	398.3	331.9	447.8	1631.1
SHIPMENTS - DOMESTIC	376.5	386.3	390.2	386.1	1539.1	405.3	424.0	400.1	401.9	1631.3	416.0	350.9	347.7	424.3	1538.9
- EXPORT	23.0	28.3	26.3	30.4	108.0	35.1	34.9	37.1	39.3	146.4	35.2	34.0	38.8	40.0	148.0
- TOTAL	399.5	414.6	416.5	416.5	1647.1	440.4	458.9	437.2	441.2	1777.7	451.2	384.9	386.5	464.3	1686.9
ENDING STOCK	141.8	140.4	142.3	156.5		158.6	140.6	142.4	160.4		162.3	175.7	121.1	104.6	
OLEFIN[b]															
PRODUCTION	145.2	155.3	146.9	149.2	596.6	155.1	161.4	157.0	165.6	639.1	168.1	152.8	146.8	164.5	632.2
SHIPMENTS - DOMESTIC	137.3	153.9	140.5	148.0	579.7	150.6	160.3	154.0	159.3	624.2	156.9	143.9	147.3	163.6	611.7
- EXPORT	3.9	3.6	3.6	4.1	15.2	5.6	4.6	5.4	5.5	21.1	6.2	5.3	4.4	4.8	20.7
- TOTAL	141.2	157.5	144.1	152.1	594.9	156.2	164.9	159.4	164.8	645.3	163.1	149.2	151.7	168.4	632.4
ENDING STOCK	75.6	73.4	76.2	73.3		72.2	68.7	66.3	67.1		72.1	75.7	70.8	66.9	
POLYESTER															
PRODUCTION	373.0	383.0	390.2	417.5	1563.7	459.6	457.3	399.9	398.8	1715.6	396.2	338.7	337.9	389.2	1462.0
SHIPMENTS - DOMESTIC	356.3	382.1	374.8	394.4	1507.6	406.1	402.8	352.0	364.2	1525.1	369.2	310.7	320.4	363.1	1363.4
- EXPORT	12.3	14.4	22.3	25.3	74.3	31.6	35.6	44.4	40.2	151.8	34.4	41.0	28.6	29.1	133.1
- TOTAL	368.6	396.5	397.1	419.7	1581.9	437.7	438.4	396.4	404.4	1676.9	403.6	351.7	349.0	392.2	1496.5
ENDING STOCK	136.2	122.7	115.8	113.6		135.5	154.4	157.9	152.3		144.9	131.9	120.8	117.8	
TOTAL NON-CELLULOSIC ABOVE															
PRODUCTION	909.9	951.5	955.5	997.4	3814.3	1057.2	1059.6	995.9	1023.6	4136.3	1017.4	889.8	816.6	1001.5	3725.3
SHIPMENTS - DOMESTIC	870.1	922.3	905.5	928.5	3626.4	962.0	987.1	906.1	925.4	3780.6	942.1	805.5	815.4	951.0	3514.0
- EXPORT	39.2	46.3	52.2	59.8	197.5	72.3	75.1	86.9	85.0	319.3	75.8	80.3	71.8	73.9	301.8
- TOTAL	909.3	968.6	957.7	988.3	3823.9	1034.3	1062.2	993.0	1010.4	4099.9	1017.9	885.8	887.2	1024.9	3815.8
ENDING STOCK	353.6	336.5	334.3	343.4		366.3	363.7	366.6	379.8		379.3	383.3	312.7	289.3	
DOMESTIC SHIPMENTS	870.1	922.3	905.5	928.5	3626.4	962.0	987.1	906.1	925.4	3780.6	942.1	805.5	815.4	951.0	3514.0
IMPORTS - TEXTURED YARN[c]	5.9	3.9	2.8	2.2	14.8	1.1	1.0	1.4	0.9	4.4	0.6	0.9	1.9	1.7	5.1
- OTHER YARN[c]	14.9	12.2	8.0	4.3	39.4	5.2	4.5	3.0	2.6	15.3	3.1	3.7	3.0	2.3	12.1
- MONOFILAMENTS	0.3	0.4	0.4	0.5	1.6	0.5	0.5	0.5	0.9	2.4	1.4	1.3	0.8	0.5	4.0
TOTAL IMPORTS	21.1	16.5	11.2	7.0	55.8	6.8	6.0	4.9	4.4	22.1	5.1	5.9	5.7	4.5	21.2
TOTAL AVAILABLE	891.2	938.8	916.7	935.5	3682.2	968.8	993.1	911.0	929.8	3802.7	947.2	811.4	821.1	955.5	3535.2
								TEXTILE GLASS FIBER							
PRODUCTION	225.2	229.1	233.7	235.3	923.3	232.1	278.8	263.7	239.8	1014.4	242.3	224.0	183.3	217.7	867.3
SHIPMENTS - DOMESTIC	200.9	218.4	226.9	218.7	864.9	228.0	260.3	207.1	216.8	912.2	249.7	181.2	182.4	253.8	867.1
- EXPORT	7.7	5.8	6.9	7.3	27.7	9.2	11.5	13.5	14.1	48.3	15.2	13.8	10.1	9.5	48.6
- TOTAL	208.6	224.2	233.8	226.0	892.6	237.2	271.8	220.6	230.9	960.5	264.9	195.0	192.5	263.3	915.7
ENDING STOCK	84.5	89.4	89.3	98.6		93.5	100.5	143.6	152.5		129.9	158.9	149.7	104.1	
IMPORTS	10.2	5.4	2.6	3.6	21.8	2.4	3.3	2.7	2.0	10.4	2.0	2.0	1.7	1.6	7.3
TOTAL AVAILABLE	211.1	223.8	229.5	222.3	886.7	230.4	263.6	209.8	218.8	922.6	251.7	183.2	184.1	255.4	874.4

FOOTNOTES FOR TABLE ABOVE & OPPOSITE

"Imports" are imports for consumption, as reported by the U.S. Census Bureau.

[a] Data for rayon and "Other" non-cellulosic yarns (chiefly saran & spandex) are available annually only; see pages 20 & 21 herewith for further details on these yarns.

[b] Olefin Yarn+Monofilament data also include film fiber as well as spunbonded polypropylene.

[c] Yarn imports include singles and plied.

[d] Acetate staple+tow data are available annually only; see pages 20 & 21 herewith for further details.

[e] These figures are composites of the nylon, acrylic+modacrylic and polyester staple imports, i.e., Commodity Numbers 309.4338, .4342 & .4345.

(Continued from page 19)

knit trades fell by 19% to 498.5 million pounds in 1980 from the 615.4 million pounds shipped in 1979. Even though there were strong fourth quarter shipments of nylon carpet face yarn, 1980 shipments declined 2½% from those of the year 1979. Shipments of olefin yarn for carpet face increased 5% to 89.5 million pounds.

(Continued on page 24)

QUARTERLY MAN-MADE FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1978					1979					1980				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
								STAPLE+TOW^d							
RAYON															
PRODUCTION	129.3	131.7	133.8	139.8	534.6	142.7	142.7	128.1	135.9	549.4	126.9	113.4	101.0	102.0	443.3
SHIPMENTS - DOMESTIC	118.0	116.9	115.2	109.1	459.2	117.6	110.3	105.9	108.6	442.4	114.2	92.6	87.3	96.6	390.7
- EXPORT	12.3	17.5	27.3	39.4	96.5	26.3	22.5	27.8	23.5	100.1	14.0	17.8	16.2	13.0	61.0
- TOTAL	130.3	134.4	142.5	148.5	555.7	143.9	132.8	133.7	132.1	542.5	128.2	110.4	103.5	109.6	451.7
ENDING STOCK	48.8	46.1	37.4	28.7		27.5	37.4	31.8	35.6		34.3	37.3	34.8	27.2	
DOMESTIC SHIPMENTS	118.0	116.9	115.2	109.1	459.2	117.6	110.3	105.9	108.6	442.4	114.2	92.6	87.3	96.6	390.7
IMPORTS FOR CONSUMPTION															
STAPLE	13.5	10.4	9.9	4.0	37.8	6.3	4.3	2.0	1.3	13.9	1.4	1.3	2.4	2.9	8.0
GROUPED FILAMENTS	0.5	1.3	0.9	0.6	3.3	0.5	0.9	0.7	0.5	2.6	0.7	0.7	0.3	0.6	2.3
TOTAL IMPORTS	14.0	11.7	10.8	4.6	41.1	6.8	5.2	2.7	1.8	16.5	2.1	2.0	2.7	3.5	10.3
TOTAL AVAILABLE	132.0	128.6	126.0	113.7	500.3	124.4	115.5	108.6	110.4	458.9	116.3	94.6	90.0	100.1	401.0
NYLON+ARAMID															
PRODUCTION	219.5	218.0	224.3	234.1	895.9	233.4	236.9	233.6	234.9	938.8	214.0	128.3	161.2	223.1	726.6
SHIPMENTS - DOMESTIC	210.6	211.6	227.1	227.1	876.4	230.1	235.9	227.8	219.4	913.2	171.9	133.2	187.6	218.5	711.2
- EXPORT	5.4	5.3	5.1	5.0	20.8	7.2	7.4	8.4	8.3	31.3	8.8	6.1	7.7	9.3	31.9
- TOTAL	216.0	216.9	232.2	232.1	897.2	237.3	243.3	236.2	227.7	944.5	180.7	139.3	195.3	227.8	743.1
ENDING STOCK	61.5	62.6	54.7	56.7		52.8	46.4	43.8	51.0		84.3	73.3	39.2	34.5	
IMPORTS	2.8	1.2	1.6	0.7	6.3	0.8	0.4	0.7	0.5	2.4	0.3	0.5	0.3	0.6	1.7
TOTAL AVAILABLE	213.4	212.8	228.7	227.8	882.7	230.9	236.3	228.5	219.9	915.6	172.2	133.7	187.9	219.1	712.9
ACRYLIC+MODACRYLIC															
PRODUCTION	189.8	189.9	169.8	176.2	725.7	187.3	192.4	184.2	197.2	761.1	206.4	197.7	182.1	193.0	779.2
SHIPMENTS - DOMESTIC	167.6	149.3	129.8	124.9	571.6	134.7	146.3	125.6	140.0	546.6	161.6	155.7	124.9	143.1	585.3
- EXPORT	27.7	30.4	39.5	53.1	150.7	52.2	56.3	61.0	54.1	223.6	50.6	43.9	47.1	44.2	185.8
- TOTAL	195.3	179.7	169.3	178.0	722.3	186.9	202.6	186.6	194.1	770.2	212.2	199.6	172.0	187.3	771.1
ENDING STOCK	60.9	71.1	71.6	69.8		70.2	60.0	57.6	60.7		54.9	53.0	63.1	68.8	
IMPORTS	6.6	6.0	2.7	2.9	18.2	2.8	4.3	3.5	2.4	13.0	3.4	4.3	2.6	3.0	13.3
TOTAL AVAILABLE	174.2	155.3	132.5	127.8	589.8	137.5	150.6	129.1	142.4	559.6	165.0	160.0	127.5	146.1	598.6
OLEFIN+VINYON															
PRODUCTION	23.6	24.2	23.2	24.3	95.3	29.1	32.3	28.2	30.6	120.2	30.7	30.3	26.5	28.2	115.7
SHIPMENTS - DOMESTIC	22.3	22.7	22.5	22.5	90.0	30.1	31.4	28.0	29.8	119.3	28.9	26.3	27.0	32.8	115.0
- EXPORT	0.1	0.4	0.2	0.2	0.9	0.1	0.3	1.4	1.7	3.5	1.4	0.5	1.0	0.8	3.7
- TOTAL	22.4	23.1	22.7	22.7	90.9	30.2	31.7	29.4	31.5	122.8	30.3	26.8	28.0	33.6	118.7
ENDING STOCK	19.6	20.7	21.2	22.8		21.7	22.3	21.1	20.2		20.6	24.1	22.6	17.2	
POLYESTER															
PRODUCTION	569.2	564.7	534.8	567.1	2235.8	606.6	605.5	618.2	631.9	2462.2	654.3	583.2	589.6	699.6	2526.7
SHIPMENTS - DOMESTIC	508.1	493.4	469.2	496.8	1967.5	537.6	543.4	522.8	530.6	2134.4	563.1	483.8	466.8	557.3	2071.0
- EXPORT	53.7	42.4	78.2	64.7	239.0	85.1	59.8	82.2	107.7	334.8	84.8	111.1	136.2	136.3	468.4
- TOTAL	561.8	535.8	547.4	561.5	2206.5	622.7	603.2	605.0	638.3	2469.2	647.9	594.9	603.0	693.6	2539.4
ENDING STOCK	164.3	193.2	180.6	186.2		170.1	172.4	185.6	179.2		185.6	173.9	160.5	166.5	
IMPORTS	1.8	2.2	2.5	1.2	7.7	0.8	1.1	0.5	0.7	3.1	0.4	0.3	0.3	0.3	1.3
TOTAL AVAILABLE	509.9	495.6	471.7	498.0	1975.2	538.4	544.5	523.3	531.3	2137.5	563.5	484.1	467.1	557.6	2072.3
TOTAL NON-CELLULOSIC															
PRODUCTION	1002.1	996.8	952.1	1001.7	3952.7	1056.4	1067.1	1064.2	1094.6	4282.3	1105.4	939.5	959.4	1143.9	4148.2
SHIPMENTS - DOMESTIC	908.6	877.0	848.6	871.3	3505.5	932.5	957.0	904.2	919.8	3713.5	925.5	799.0	806.3	951.7	3482.5
- EXPORT	86.9	78.5	123.0	123.0	411.4	144.6	123.8	153.0	171.8	593.2	145.6	161.6	192.0	190.6	689.8
- TOTAL	995.5	955.5	971.6	994.3	3916.9	1077.1	1080.8	1057.2	1091.6	4306.7	1071.1	960.6	998.3	1142.3	4172.3
ENDING STOCK	306.3	347.6	328.1	335.5		314.8	301.1	308.1	311.1		345.4	324.3	285.4	287.0	
DOMESTIC SHIPMENTS	908.6	877.0	848.6	871.3	3505.5	932.5	957.0	904.2	919.8	3713.5	925.5	799.0	806.3	951.7	3482.5
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE^e	11.2	9.4	6.8	4.8	32.2	4.4	5.8	4.7	3.6	18.5	4.1	5.1	3.2	3.9	16.3
OTHER N.C. STAPLE	6.1	5.3	5.3	4.6	21.3	4.2	3.8	3.9	3.9	15.8	3.9	3.4	3.1	4.2	14.6
GROUPED FILAMENTS	2.4	1.8	2.1	0.7	7.0	1.0	1.3	1.3	1.4	5.0	1.6	1.3	0.6	1.0	4.5
TOTAL IMPORTS	19.7	16.5	14.2	10.1	60.5	9.6	10.9	9.9	8.9	39.3	9.6	9.8	6.9	9.1	35.4
TOTAL AVAILABLE	928.3	893.5	862.8	881.4	3566.0	942.1	967.9	914.1	928.7	3752.8	935.1	808.8	813.2	960.8	3517.9

7

FILAMENT YARN DOMESTIC SHIPMENTS[a]

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1979				1980			
		1976	1977	1978	1979	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
		(A) ACETATE		(N) NYLON+ARAMID		(P) POLYESTER		(O) OLEFIN					
HOSIERY[b]	N	85.0	88.8	99.0	106.3	26.5	26.4	26.5	26.9	27.2	26.7	25.3	27.1
OTHER CIRCULAR KNIT[c]	N	58.6	68.9	65.5	58.9	18.0	15.4	13.9	11.6	14.3	13.0	13.2	16.1
	P	721.7	738.7	635.5	615.4	167.2	160.9	142.8	144.5	146.3	109.1	114.8	128.3
	A	2.1	1.6	1.9	4.5	0.9	1.3	1.3	1.0	1.0	0.8	0.7	0.7
FLAT KNIT	A	110.3	124.2	138.3	146.9	35.3	37.0	36.9	37.7	37.4	40.0	35.9	31.6
	N	158.0	165.6	196.1	202.6	52.8	50.4	49.3	50.1	50.3	42.3	35.2	48.5
	P	67.0	85.9	81.7	89.0	21.1	24.1	22.4	21.4	23.2	17.7	19.8	24.7
CARPET FACE	N	511.9	617.8	677.8	732.5	164.1	196.8	187.9	183.7	183.5	157.5	169.3	204.2
	O	65.8	67.0	78.9	85.3	20.7	20.9	20.7	23.0	24.3	20.9	20.4	23.9
CARPET BACKING[d]	O	177.7	196.4	213.7	220.7	54.3	56.8	54.6	55.0	52.5	44.4	49.7	51.2
OTHER BROAD WOVEN[e]	A	127.2	126.2	125.9	129.2	33.8	32.0	32.1	31.3	32.7	27.4	25.6	24.8
	N	98.6	87.7	95.0	102.7	26.1	25.8	24.4	26.4	26.9	25.9	18.7	22.8
	P	236.7	315.9	411.5	387.2	103.6	103.0	88.2	92.4	102.9	97.1	96.6	108.9
	O	144.0	162.9	158.7	171.4	40.2	42.3	42.8	46.1	42.6	43.3	47.1	53.3
NARROW WOVEN[f]	A	8.1	5.9	7.0	5.9	1.5	1.4	1.2	1.8	1.5	3.2	2.0	2.0
	N	38.9	38.0	40.6	37.2	10.5	9.9	8.2	8.6	9.3	7.3	7.6	7.2
	P	15.7	24.0	29.1	30.5	8.0	8.4	6.6	7.5	8.1	5.6	7.4	7.0
	O	9.8	10.3	11.1	11.8	2.6	2.8	3.0	3.4	3.2	3.0	3.1	3.0
TIRES, INCL. CHAFER	N	246.0	244.1	267.6	285.3	82.5	70.0	63.3	69.5	72.2	47.6	45.1	55.4
	P	263.2	258.0	253.4	227.4	70.9	62.6	47.7	46.2	45.6	31.2	37.0	47.2
OTHER RUBBER INDUSTRY[g]	N	26.0	22.5	25.7	28.7	6.5	7.4	8.2	6.6	6.1	4.9	4.8	6.5
	P	26.9	30.1	32.0	35.8	9.3	10.2	7.7	8.6	10.0	6.1	6.7	7.4
ROPE, CORDAGE & FISHLINE	N	28.5	28.1	33.4	38.2	9.2	10.2	9.6	9.2	9.6	7.6	7.7	8.1
	P	8.0	10.4	10.6	13.6	3.4	[illegible]	3.0	4.0	3.0	3.6	3.0	3.5
	O	71.0	74.4	82.4	95.3	23.9	27.4	22.8	21.2	20.7	23.4	18.8	21.5
ALL OTHER[h]	A	1.7	1.5	1.5	1.9	0.3	0.5	0.5	0.6	0.3	0.5	0.5	0.6
	N	27.8	34.7	38.4	38.9	9.1	11.7	8.8	9.3	16.6	18.1	20.8	28.4
	P	34.7	47.6	53.8	126.2	22.6	30.4	33.6	39.6	30.1	40.3	35.1	36.1
	O	13.7	28.6	34.9	39.7	8.9	10.1	10.1	10.6	13.6	8.9	8.2	10.7
TOTAL DOMESTIC ABOVE	A	249.4	259.4	274.6	288.4	71.8	72.2	72.0	72.4	72.9	71.9	64.7	59.7
	N	1279.3	1396.2	1539.1	1631.3	405.3	424.0	400.1	401.9	416.0	350.9	347.7	424.3
	P	1373.9	1510.6	1507.6	1525.1	406.1	402.8	352.0	364.2	369.2	310.7	320.4	363.1
	O	482.0	539.6	579.7	624.2	150.6	160.3	154.0	159.3	156.9	143.9	147.3	163.6
TOTAL DOMESTIC ABOVE		**3384.6**	**3705.8**	**3901.0**	**4069.0**	**1033.8**	**1059.3**	**978.1**	**997.8**	**1015.0**	**877.4**	**880.1**	**1010.7**
ALSO DIVIDED AS													
APPAREL		1518.3	1634.4	1671.2	1604.5	423.9	417.2	380.4	383.0	407.9	354.3	365.1	401.1
HOME FURNISHINGS		928.9	1090.5	1171.9	1274.6	299.5	333.8	319.4	321.9	318.6	274.0	285.5	336.6
INDUSTRIAL		937.4	980.9	1057.9	1189.9	310.4	308.3	278.3	292.9	288.5	249.1	229.5	273.0
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET)[i]													
ACETATE		1.6	1.0	1.3	+	+	+	0	0	0	0	0	0
NYLON		154.2	158.5	161.6	166.8	44.5	42.0	40.7	39.6	40.4	41.6	39.4	46.0
POLYESTER		925.7	1043.1	1018.7	1015.3	267.6	267.5	237.6	242.6	249.1	216.4	225.0	251.5
OLEFIN		40.9	53.8	52.3	46.5	10.8	11.9	11.4	12.4	11.0	9.0	8.1	12.8

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small poundages of polyester are included in All Other

c. Small poundages of olefin are included in All Other.

d. Small poundages of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc. The olefin poundages include other home furnishings applications only, i.e. industrial applications are in All Other.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Small poundages of olefin are included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin poundages include sliver knit backing.

i. These poundages are included in the total domestic area above.

(Continued from page 22)

Deliveries of polyester and olefin yarn to the other broad woven trades increased during 1980.

A similar comparison for domestic staple+tow shipments shows that deliveries of acrylic+modacrylic to the hosiery, sweater and craft yarn trades increased 15% to 275.7 million pounds in 1980. Shipments of both acrylic+modacrylic and polyester staple to the other knit trades increased during 1980. However, shipments of nylon staple for carpet face yarns fell by 24%

STAPLE & TOW DOMESTIC SHIPMENTS

MILLION POUNDS

(R) RAYON (N) NYLON+ARAMID (A) ACRYLIC+MODACRYLIC (P) POLYESTER (O) OLEFIN

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1979				1980			
		1976	1977	1978	1979	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	210.1	262.3	241.8	238.8	52.7	61.9	57.4	66.8	75.8	71.9	56.2	71.8
	NPR	12.4	15.0	24.7	21.3	6.8	6.7	3.7	4.1	4.1	3.3	1.9	2.2
PILE FABRICS[b]	A	73.8	87.6	82.4	65.1	18.5	19.5	14.1	13.0	17.5	18.7	11.7	12.5
	P	20.0	25.4	15.1	17.8	4.4	3.9	4.1	5.4	6.4	4.9	4.1	4.3
OTHER CIRCULAR+FLAT KNIT[c]	R	8.5	11.6	10.8	11.7	3.2	2.7	2.7	3.1	3.8	1.8	2.4	2.3
	A	84.7	111.8	93.1	98.8	24.2	25.4	22.9	26.3	34.8	35.1	27.1	28.0
	P	213.1	204.5	223.7	278.1	69.1	73.9	64.9	70.2	82.9	70.2	64.3	81.0
BLANKETS[b]	A	34.3	50.2	55.2	45.5	11.4	13.8	9.0	11.3	10.7	11.0	11.9	8.6
	P	7.7	15.6	14.9	13.2	3.9	4.0	2.7	2.6	4.2	4.4	4.5	4.6
OTHER BROAD WOVEN	R	240.5	223.0	245.9	233.2	66.4	56.2	56.0	54.6	57.0	43.7	48.0	53.5
	N	39.6	55.4	52.6	59.2	14.7	14.8	14.8	14.9	15.6	9.9	10.2	17.3
	A	21.6	27.2	28.6	42.1	10.6	11.4	9.2	10.9	11.3	10.3	9.1	11.6
	P	1061.2	1105.8	1114.7	1171.0	300.8	299.4	281.8	289.0	324.1	287.2	268.5	324.3
	O	4.1	7.3	10.6	17.0	3.8	5.0	3.5	4.7	4.0	4.3	3.7	5.3
CARPET FACE YARNS	R	0.3	0.1	+	+	+	0	0	0	+	+	+	0
	N	607.4	715.0	798.5	828.0	209.9	214.0	206.5	197.6	149.4	115.8	171.3	195.0
	A	87.2	72.7	62.8	48.1	15.0	11.1	11.7	10.3	Included in All Other			
	P	199.6	205.3	200.8	192.4	48.2	51.0	48.3	44.9	32.2	25.1	23.9	38.7
	O	27.1	38.7	46.0	64.7	17.3	16.5	15.1	15.8	14.9	14.7	14.6	17.4
FIBERFILL[d]	P	152.8	176.8	198.2	239.6	58.3	57.5	63.8	60.0	55.5	44.6	52.7	52.3
FLOCK	NP	2.7	5.7	8.2	10.7	2.4	2.5	2.5	3.3	3.4	2.5	2.1	2.8
	R	9.8	6.4	4.7	5.1	1.4	1.1	1.3	1.3	1.2	1.4	1.1	1.3
NONWOVENS[e f]	R	173.2	174.3	166.2	160.3	39.5	43.7	36.2	40.9	45.1	39.0	29.6	32.6
	N	3.8	4.1	4.3	3.8	1.0	0.7	1.3	0.8	0.9	0.7	0.8	0.8
	P	47.9	57.4	98.5	153.6	37.5	38.4	40.2	37.5	38.9	34.8	38.3	38.3
	VINYON+O	21.6	30.6	28.6	36.7	8.9	9.5	9.1	9.2	9.4	7.1	8.4	9.7
ALL OTHER	R	25.5	26.1	29.5	30.9	6.9	6.2	9.3	8.5	7.0	6.6	6.1	6.6
	N	10.2	9.1	11.1	10.8	2.0	3.6	2.4	2.8	2.6	4.1	2.9	2.6
	A	5.6	8.0	7.7	8.2	2.3	3.2	1.3	1.4	11.5	8.7	8.9	10.6
	P	67.4	80.3	80.7	49.3	8.9	9.3	14.0	17.1	14.9	9.6	9.0	11.9
	VINYON+O	5.8	4.7	4.8	0.9	0.1	0.4	0.3	0.1	0.6	0.2	0.3	0.4
TOTAL DOMESTIC ABOVE	R	461.0	444.9	459.2	442.4	117.6	110.3	105.9	108.6	114.2	92.6	87.3	96.6
	N	665.4	791.7	876.4	913.2	230.1	235.9	227.8	219.4	171.9	133.2	187.6	218.5
	A	517.3	619.8	571.6	546.6	134.7	146.3	125.6	140.0	161.6	155.7	124.9	143.1
	P	1777.2	1880.3	1967.5	2134.4	537.6	543.4	522.8	530.6	563.1	483.8	466.8	557.3
	VINYON+O	58.6	81.3	90.0	119.3	30.1	31.4	28.0	29.8	28.9	26.3	27.0	32.8
TOTAL DOMESTIC ABOVE		**3479.5**	**3818.0**	**3964.7**	**4155.9**	**1050.1**	**1067.3**	**1010.1**	**1028.4**	**1039.7**	**891.6**	**893.6**	**1048.3**
ALSO DIVIDED AS													
APPAREL		1441.2	1551.7	1493.4	1548.6	385.6	401.6	364.7	396.7	460.7	409.1	363.3	431.8
HOME FURNISHINGS		1432.8	1602.2	1714.8	1759.1	457.9	452.9	430.5	417.8	375.1	311.9	358.4	428.2
INDUSTRIAL		605.5	664.1	756.5	848.2	206.6	212.8	214.9	213.9	203.9	170.6	171.9	188.3

a. Olefin poundages are included in All Other.
b. Rayon and nylon poundages are included in All Other.
c. Nylon poundages are included in All Other.
d. Rayon and acrylic poundages are included in All Other.
e. Wet & dry laid and needled batts only.
f. Acrylic poundages are included in All Other.

to 631.5 million pounds and those of polyester staple fell by 38% to 119.9 million pounds.

Drawing together the yarn and staple data from the tables above, the distribution between apparel, home furnishings and industrial is as follows:

	1976	1977	1978	1979	1980
Apparel	2959	3186	3165	3153	3193
Home Furnishings	2362	2693	2887	3034	2688
Industrial	1543	1645	1814	2038	1775
	6864	**7524**	**7866**	**8225**	**7656**

YARN CONSUMED IN BROAD WOVEN FABRIC MILLS[a]

MILLION POUNDS

YARN	1979 1ST Q	1979 2ND Q	1979 3RD Q	1979 4TH Q	1979 YEAR	1980 1ST Q	1980 2ND Q	1980 3RD Q	1980 4TH Q	1980 YEAR	1981 1ST Q	1981 2ND Q
100% FILAMENT												
RAYON, ACETATE & TRIACETATE	29.4	26.8	22.4	25.6	104.2	25.9	26.0	20.9				
NYLON	106.8	98.7	87.4	100.3	393.2	97.7	76.9	74.9				
POLYESTER	127.0	119.5	102.5	107.2	456.2	98.0	83.2	78.2				
TEXTILE GLASS	42.3	41.8	39.6	42.9	166.6	53.9	40.7	34.1				
OLEFIN & SARAN	65.5	67.9	66.0	94.1	293.5	74.0	67.9	70.1				
ALL OTHER	4.7	4.5	4.4	4.3	17.9	4.6	2.8	3.9				
TOTAL FILAMENT YARN ABOVE	**375.7**	**359.2**	**322.3**	**374.4**	**1431.6**	**354.1**	**297.5**	**282.1**				
SPUN YARN												
100% COTTON	375.3	361.0	335.1	343.3	1414.7	364.8	348.5	309.6				
100% WOOL	11.5	10.0	6.7	6.8	35.0	9.1	9.6	6.0				
100% ACRYLIC	6.2	6.6	4.8	5.4	23.0	6.7	8.0	7.5				
100% POLYESTER	51.0	49.1	44.6	43.1	187.8	43.3	35.1	31.2				
RAYON AND/OR ACETATE[b]	36.3	35.4	30.4	29.8	131.9	29.7	22.0	20.6				
POLYESTER/COTTON BLENDS[c]	310.3	311.0	296.5	324.2	1242.0	359.6	355.5	324.4				
POLYESTER/WOOL BLENDS[c]	6.6	6.1	5.3	5.7	23.7	5.1	6.0	5.5				
POLYESTER/RAYON BLENDS[c]	32.9	32.6	29.3	31.3	126.1	32.8	36.2	33.9				
TOTAL SPUN YARN ABOVE	**830.1**	**811.8**	**752.7**	**789.6**	**3184.2**	**851.1**	**820.9**	**738.7**				
ALL OTHER YARNS[d]	**22.9**	**22.2**	**21.0**	**20.5**	**86.6**	**24.7**	**19.7**	**19.6**				
GRAND TOTAL	**1228.7**	**1193.2**	**1096.0**	**1184.5**	**4702.4**	**1229.9**	**1138.1**	**1040.4**				

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T.*

a. Includes data from all types of broad woven fabric mills, i.e., cotton, man-made, woolen & worsted and tire cord & fabric mills.

b. Includes 100% spun rayon and acetate as well as rayon and/or acetate/cotton blends regardless of blend level.

c. Regardless of blend level.

d. All Other Yarns includes spun nylon, other blends, silk and paper.

FILAMENT YARN DOMESTIC SHIPMENTS BY DENIER

MILLION POUNDS

ACETATE

DENIER	1974	1975	1976	1977	1978	1979	1980
55 (62 & FINER)	98.9	110.7	63.3	62.5	67.1	68.0	66.1
75 (63-87)	62.6	55.5	52.4	66.1	72.3	63.8	67.5
100 (88-112)	32.5	23.8	14.8	15.0	20.2	26.5	31.4
150 (113-162)	80.1	67.7	88.1	89.5	91.3	108.9	87.6
200 (163-237)	16.1	7.4	2.7	2.3	2.4	3.4	2.6
300 (238-374)	17.2	15.6	12.0	10.4	9.6	9.7	7.3
450 (375 & COARSER)	12.9	13.0	16.1	13.6	11.7	8.1	6.7
TOTAL DOMESTIC SHIPMENTS	**320.3**	**293.7**	**249.4**	**259.4**	**274.6**	**288.4**	**269.2**
Average Denier[a]	*88*	*83*	*93*	*91*	*90*	*92*	*88*

POLYESTER TEXTILE

DENIER	1976	1977	1978	1979	1980
55 & FINER	15.0	22.2	25.9	30.1	37.3
70 (56-89)	87.7	136.8	212.5	215.0	191.3
100 (90-109)	47.4	61.0	58.1	63.4	32.6
120 (110-129)	13.3	12.4	18.6	4.8	2.8
135 (130-144)	18.2	23.2	15.3	18.6	10.1
150 (145-179)	819.1	869.1	783.7	765.2	738.6
180 & COARSER[c]	39.5	42.5	49.8	66.8	65.3
TOTAL DOMESTIC SHIPMENTS	**1040.2**	**1167.2**	**1163.9**	**1163.9**	**1078.0**
Average Denier[a]	*130*	*124*	*116*	*116*	*120*

NYLON TEXTILE

DENIER	1974	1975	1976	1977	1978	1979	1980
MONOFILS & FEWOFILS[b]	25.0	27.1	26.5	23.3	27.9	31.7	29.1
FILAMENT YARN							
34 & FINER	37.4	39.0	41.3	42.6	41.0	38.0	35.9
40 (35-59)	132.9	144.9	124.7	132.5	164.1	177.5	155.4
70 (60-89)	141.4	119.7	113.2	124.2	122.0	112.4	109.0
100 (90-109)	39.3	40.1	38.9	38.7	43.6	43.7	42.7
140 (110-179)	16.6	13.8	10.3	18.5	20.2	21.2	21.1
200 (180-204)	15.8	14.8	15.0	11.4	19.7	18.6	18.2
205 & COARSER[c]	41.0	37.0	42.1	41.4	44.3	18.1	15.2
TOTAL DOMESTIC SHIPMENTS	**449.4**	**436.4**	**412.0**	**432.6**	**482.8**	**461.2**	**426.6**
Average Denier[a]	*51*	*49*	*48*	*49*	*48*	*45*	*46*

NYLON CARPET

DENIER	1976	1977	1978	1979	1980
1499 & FINER	296.7	369.0	443.8	479.2	460.6
1800 (1500-1900)	69.3	114.8	126.6	131.2	149.4
2600 (1901-2700)	135.9	114.7	89.4	100.7	84.8
2701 & COARSER	16.8	19.3	18.0	21.4	19.7
TOTAL DOMESTIC SHIPMENTS	**518.7**	**617.8**	**677.8**	**732.5**	**714.5**
Average Denier[a]	*1603*	*1557*	*1503*	*1506*	*1503*

a. Average Denier calculated by harmonic mean method.

b. Monofilaments up to 40 denier. Fewofils are mulitifilament yarns with 4 or fewer filaments in the bundle.

c. Includes low denier industrial yarn through 1978.

BROAD WOVEN GOODS AND TIRE CORD PRODUCTION

TYPE OF FABRIC	1979					1980					1981	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
						MILLION LINEAR YARDS						
COTTON FABRICS	1032.5	1018.1	931.5	943.4	3925.5	1020.9	968.2	818.3				
DUCK & ALLIED FABRICS	24.7	23.6	21.9	23.4	93.6	21.9	20.1	16.8				
SHEETING & ALLIED FABRICS	186.2	192.5	177.7	165.2	721.6	154.2	149.5	114.0				
PRINT CLOTH YARN FABRICS	390.4	376.2	328.1	327.6	1422.3	367.4	360.7	299.4				
TOWELING, WASH- & DISHCLOTHS	133.0	128.7	118.9	125.2	505.8	130.6	123.4	112.5				
FINE COTTON FABRICS	24.1	24.4	22.6	26.1	97.2	24.5	21.9	20.2				
BLANKETS & BLANKETING	27.1	27.5	7.4	8.4	104.7	6.0	5.7	6.2				
OTHER NAPPED FABRICS			17.2	17.1		17.8	14.1	11.3				
DRAPERY & BEDSPREAD FABRICS	14.8	13.5	13.3	12.8	54.4	12.7	11.0	7.1				
UPHOLSTERY, TAPESTRY & VELVETS	4.9	5.1	4.0	5.4	19.4	5.5	6.2	5.2				
CORDUROYS	70.5	70.2	69.0	75.3	285.0	86.9	78.4	65.3				
CARDED COLORED YARN FABRICS	152.8	154.7	149.9	153.4	610.8	182.7	177.2	160.3				
ALL OTHER FABRICS	4.0	1.7	1.5	3.5	10.7	10.7						
WOOLEN & WORSTED FABRICS[a]	33.5	31.3	24.6	26.2	115.6	33.6	33.9	22.2				
MEN'S & BOYS' CLOTHING	14.7	13.7	10.3	13.2	51.9	19.2	18.2	11.7				
WOMEN'S & CHILDREN'S CLOTHING	13.9	13.8	11.0	9.8	48.5	11.3	13.2	9.6				
NONAPPAREL FABRICS	4.9	3.8	3.3	3.2	15.2	3.1	2.5	0.9				
MAN-MADE FABRICS	1713.9	1681.6	1555.3	1656.5	6607.3	1779.0	1684.2	1594.0				
100% FILAMENT YARN FABRICS												
100% RAYON	3.1	3.3	3.2	3.4	13.0	5.4	5.9	5.3				
COMBINATIONS, CHIEFLY ACETATE	8.2	8.6	9.3	9.3	35.4	9.0	9.0	8.5				
100% NYLON	112.0	106.5	102.1	104.6	425.2	113.0	105.0	87.2				
100% POLYESTER	150.5	146.7	135.8	144.5	577.5	146.4	154.8	142.6				
TEXTILE GLASS	87.2	82.8	80.0	88.2	338.2	101.1	85.3	68.7				
COMBINATIONS, CHIEFLY RAYON	91.1	86.9	232.6	282.8	965.9	253.1	237.4	249.3				
100% ACETATE												
OTHER 100% FILAMENT	135.1	137.4										
COMBINATIONS, CHIEFLY POLYESTER	15.2	17.1	15.4	11.6	59.3	12.4	11.7	12.4				
100% SPUN YARN FABRICS & BLENDS												
100% RAYON & ACETATE	25.6	23.4	20.1	20.7	89.8	21.8	20.3	16.6				
RAYON & ACETATE BLENDS WITH OTHER FIBERS	59.9	63.4	60.8	64.5	248.6	58.9	57.3	55.9				
100% POLYESTER	43.2	40.2	34.8	33.2	151.4	34.0	30.7	31.5				
POLYESTER WITH COTTON	649.1	641.3	582.3	583.2	2455.9	673.1	658.2	617.0				
POLYESTER WITH RAYON	113.2	112.4	90.6	91.1	407.3	110.4	103.5	100.1				
POLYESTER WITH WOOL	11.6	10.2	7.7	7.4	36.9	6.6	6.3	15.1[b]				
POLYESTER WITH OTHER FIBERS	11.2	11.0	6.6	8.7	37.5	12.6	5.7	11.0				
ALL OTHER	14.6	13.2	11.2	13.2	52.2	13.9	13.3	12.3				
COMBINATIONS & MIXTURES[c]												
FILAMENT ACETATE WARP	12.9	13.6	12.6	11.8	50.9	12.0	12.9	14.9				
FILAMENT POLYESTER WARP	34.4	35.5	32.6	40.8	143.3	41.0	37.9	39.0				
OTHER FILAMENT WARP	7.9	4.7	3.2	5.9	21.7	3.4						
OTHER	43.5	42.3	41.5	55.7	183.0	65.4	48.3	43.0				
SPECIALTIES												
BLANKETING	17.3	18.0	16.2	16.3	67.8	16.3	17.1	9.2[d]				
UPHOLSTERY & TAPESTRY	24.3	24.0	19.7	21.8	89.8	22.7	18.8	14.9				
DRAPERY FABRICS[e]	36.6	32.8	31.6	32.2	133.2	39.6	37.9	33.1				
OTHER SPECIALTY[f]	6.2	6.3	5.4	5.6	23.5	6.9	6.9	6.4				
TOTAL BROAD WOVEN FABRICS ABOVE	2779.9	2731.0	2511.4	2626.1	10648.4	2833.5	2686.3	2434.5				
						MILLION POUNDS						
TIRE CORD & TIRE FABRICS	162.5	148.6	120.4	134.7	566.2	138.9	101.6	104.5				
TIRE CORD & TIRE CORD FABRICS												
NYLON	78.3	70.9	63.1	80.3	292.6	75.0	56.5	56.1				
POLYESTER	60.6	54.4	40.6	38.9	194.5	45.3	29.9	33.2				
RAYON	6.7	7.2	4.8	5.1	23.8	6.1	5.3	8.0				
GLASS	7.6	6.1	4.5	3.4	21.6	5.1	4.0					
CHAFER & OTHER[g]	9.3	10.0	7.4	7.0	33.7	7.4	5.9	7.2				

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T.*

a. Felts are not included.

b. Includes polyester blanketing.

c. Includes filament & spun yarn fabrics.

d. Polyester blanketing is included with polyester/wool blend fabrics above.

e. Includes bedspread fabric (except glass).

f. 100% or chiefly man-made fibers; chief fiber not specified. Also includes small poundages of silk, tie, twisted paper yarn and girdle & swimwear fabrics.

g. Includes a nominal amount of cotton and some steel.

11

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEM	1980												YEAR		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1980	1979	1978
RAYON+ACETATE YARN, MONOFIL & STRIPS															
CANADA	83	33	1	51	33	29	36	36	280	112	72	27	793	1853	2085
MEXICO	154	116	185	109	148	146	80	163	86	41	121	209	1558	1510	1704
WEST GERMANY	159	122	97	129	32	102	51	51	58	67	134	112	1114	3236	2977
NETHERLANDS	34	34	29	84	318	228	162	248	17	394	417	86	2051	436	10391
UNITED KINGDOM	140	153	213	562	108	163	151	57	30	29	0	19	1625	3971	5010
JAPAN	143	91	0	50	146	57	57	25	36	33	0	20	658	504	802
ALL OTHER COUNTRIES[a]	44	165	40	0	0	0	40	40	63	60	0	51	503	1761	2760
TOTAL R+A YARN	**757**	**714**	**565**	**985**	**785**	**725**	**577**	**620**	**570**	**736**	**744**	**524**	**8302**	**13271**	**25720**
RAYON+ACETATE STAPLE+TOW															
CANADA	68	131	130	61	115	142	87	92	259	444	524	899	2952	1676	1992
AUSTRIA	20	0	110	80	88	55	213	188	301	20	148	120	1343	5544	12879
WEST GERMANY	18	--	38	23	7	20	0	19	5	85	0	0	215	383	169
SWEDEN	321	41	476	410	0	0	897	228	0	182	92	275	2922	5588	9082
UNITED KINGDOM	202	133	107	160	341	192	0	108	0	218	37	113	1611	1884	3661
JAPAN	87	29	198	45	0	135	60	28	207	59	59	178	1085	773	543
ALL OTHER COUNTRIES[b]	3	2	5	0	20	77	--	0	45	0	6	20	178	681	12799
TOTAL R+A STAPLE	**719**	**336**	**1064**	**779**	**571**	**621**	**1257**	**663**	**817**	**1008**	**866**	**1605**	**10306**	**16529**	**41125**
NON-CELLULOSIC YARN, MONOFIL & STRIPS															
ARGENTINA	43	43	57	43	36	89	0	0	0	0	0	0	311	58	0
CANADA	42	102	57	196	59	261	59	2	1441	600	54	43	2916	481	3455
BELGIUM	1	24	--	4	3	1	0	0	0	0	1	0	34	215	12
FRANCE	1	14	65	65	69	125	8	85	160	71	67	49	779	1378	5656
WEST GERMANY	308	265	311	395	275	351	135	95	136	290	285	192	3038	2959	8737
IRELAND	72	6	8	44	7	1	2	2	2	1	--	--	145	493	1049
ITALY	23	0	6	9	5	12	14	36	11	65	36	41	258	395	6089
NETHERLANDS	24	1	12	12	12	61	0	0	--	0	36	1	159	180	186
UNITED KINGDOM	20	46	10	10	44	13	120	197	138	3	9	48	658	749	3294
JAPAN	1202	782	1185	1094	1030	1052	872	1195	682	701	589	608	10992	11940	21650
TAIWAN	0	13	0	0	0	32	5	32	0	0	0	0	82	415	1131
ALL OTHER COUNTRIES[c]	32	11	4	8	1	14	8	23	71	32	14	24	242	741	949
TOTAL N.C. YARN	**1768**	**1307**	**1715**	**1880**	**1541**	**2012**	**1223**	**1667**	**2641**	**1763**	**1091**	**1006**	**19614**	**20004**	**52208**
NON-CELLULOSIC STAPLE+TOW															
CANADA	176	225	418	479	274	40	40	88	111	145	196	268	2460	1071	4048
WEST GERMANY	1158	793	719	1065	988	990	963	334	622	650	1426	[illegible]	10243	9872	14136
ITALY	99	17	134	157	165	221	97	80	51	45	66	104	1236	2800	4336
ROMANIA	201	25	19	0	30	47	132	25	0	0	80	0	559	1680	3013
UNITED KINGDOM	400	276	110	294	223	183	78	131	78	108	325	87	2293	3688	2805
JAPAN	694	300	620	706	599	459	602	296	576	384	451	326	6013	9006	19946
TAIWAN	162	1458	1491	778	1138	832	884	974	914	1556	1313	940	12440	10614	10693
ALL OTHER COUNTRIES[d]	17	15	76	67	27	3	13	3	26	18	16	43	324	588	1509
TOTAL N.C. STAPLE	**2907**	**3109**	**3587**	**3546**	**3444**	**2775**	**2809**	**1931**	**2378**	**2006**	**3873**	**2303**	**35568**	**39319**	**60486**

Other countries supplying 1980 poundages are:

a. Austria 59, Brazil 28, Iraq 109, Italy 3, South Korea 120, Spain 99, Sweden 41 & Yugoslavia 44.

b. Belgium 5, Egypt 2, Finland 1, France 126, India 42, Mexico 1 & USSR 1.

c. Australia 1, Austria 1, Denmark 2, Greece 15, Israel 67, South Korea 13, Mexico 40, Portugal 20, Spain 62 & Switzerland 21.

d. Belgium 4, Costa Rica 1, Finland 1, France 49, Hong Kong 4, India 41, Ireland 37, Israel 11, Mexico 31, Netherlands 20, Poland 65, Spain 53 & Switzerland 7.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1980 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR 1980	1979	1978
RAYON+ACETATE																
YARN - SINGLES																
TEXTURED	310.0106 & .0206	132	39	80	437	0	77	43	36	--	19	0	49	912	2695	1747
OTHER	310.0130 & .0230[a]	625	675	485	548	785	648	534	584	570	707	744	475	7380	10495	23925
MONOFILAMENTS	309.0310 & .0610	0	0	0	0	0	0	0	0	0	0	0	0	0	--	3
STRIPS, $1/LB & UNDER	309.2000*	0	0	0	0	0	0	0	0	0	10	0	0	10	81	54
SUBTOTAL ABOVE		757	714	565	985	785	725	577	620	570	736	744	524	8302	13271	25729
STAPLE	309.4320 & .4325	440	190	800	596	260	408	1257	507	646	720	710	1464	7998	13949	37840
GROUPED FILAMENTS	309.3010 & .3110	279	146	264	183	311	213	0	156	171	288	156	141	2308	2580	3285
SUBTOTAL ABOVE		719	336	1064	779	571	621	1257	663	817	1008	866	1605	10306	16529	41125
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	35	16	0	42	58	0	40	0	35	81	32	0	339	803	391
NON-CELLULOSIC FIBERS																
YARN - SINGLES																
TEXTURED - NYLON	310.0109 & .0209	44	80	1	71	42	178	78	142	1519	826	63	110	3154	953	4625
- POLYESTER	310.0110 & .0210	32	0	66	82	31	79	3	16	3	10	7	8	337	1083	6068
- OTHER	310.0114 & .0214	43	21	39	37	6	0	20	7	9	4	3	6	195	153	657
OTHER - NYLON	310.0149 & .0249	514	489	325	257	252	260	327	324	328	175	132	189	3572	6105	24993
- POLYESTER	310.0150 & .0250	488	296	479	726	727	686	435	784	493	460	519	379	6672	7579	12740
- OTHER	310.0170 & .0270[b]	134	117	141	168	91	169	67	82	92	54	203	99	1417	1346	1252
MONOFILAMENTS	309.0200 & .0330[c]	497	287	639	507	357	429	273	300	176	222	144	207	4038	2365	1554
STRIPS, OVER $1/LB	309.2100 & .2500*	16	17	25	32	35	11	20	12	21	12	20	8	229	420	319
SUBTOTAL ABOVE		1768	1307	1715	1880	1541	2012	1223	1667	2641	1783	1091	1006	19614	20004	52208
STAPLE - NYLON	309.4338	94	67	126	190	194	83	130	101	155	180	122	256	1698	2364	6306
- POLYESTER	309.4342	236	70	62	53	163	73	187	66	121	38	186	89	1344	3087	7695
- ACRYLIC	309.4345	1333	945	1095	1732	1265	1279	1311	585	797	668	1716	570	13296	13047	18185
- OLEFIN	309.4346	--	3	3	0	13	41	13	46	24	1	0	0	144	57	46
- OTHER	309.4355	497	1644	1755	1123	1376	903	999	1008	1070	1650	1398	1151	14574	15766	21241
GROUPED FILAMENTS																
NYLON	309.3030 & .3130	90	26	71	35	103	206	94	40	92	55	117	93	1022	719	1025
POLYESTER	309.3040 & .3140	0	0	25	30	40	22	0	--	0	--	11	1	129	44	529
ACRYLIC	309.3050 & .3150	558	346	299	341	224	87	52	60	82	237	200	122	2608	2910	3607
OTHER	309.3065 & .3165	99	8	151	42	66	81	23	25	37	77	123	21	753	1325	1852
SUBTOTAL ABOVE		2907	3109	3587	3546	3444	2775	2809	1931	2378	2906	3873	2303	35568	39319	60486
WASTE, NOT ADVANCED - NYLON	309.6625	1533	1226	1299	733	1055	1056	900	711	472	903	1019	751	11658	12843	14623
- POLYESTER	309.6630	202	283	452	292	301	413	313	633	562	781	748	956	5936	3333	5344
- ACRYLIC	309.6645	156	67	247	315	195	239	223	124	209	233	141	209	2358	2395	3328
- OTHER	309.6660	29	41	172	125	42	123	49	124	6	43	96	115	965	1568	1497
NOILS & GARNETTED FIBERS	309.6000 & .7000*	0	0	0	2	0	0	2	0	0	0	0	0	4	3	14
OTHER WASTE, ADVANCED	309.7525 - .7555	20	58	24	108	51	72	94	5	3	33	94	63	625	984	1170
TOTAL MAN-MADE ABOVE		8126	7157	9125	8807	8043	8036	7487	6478	7693	8487	8704	7532	95675	111052	205915
OTHER MAN-MADE FIBER TOPS, YARN & THREAD																
YARN - PLIED																
TEXTURED - CELLULOSIC	310.1106	0	0	0	0	0	0	0	0	0	0	0	0	0	2	26
- NON-CELLULOSIC	310.1015[d] & .1109[e]	85	104	75	91	222	97	84	24	16	77	279	224	1378	2196	3454
OTHER - CELLULOSIC	310.1030 & .1135[f]	14	21	12	27	18	5	0	0	0	0	0	0	97	25	300
- NON-CELLULOSIC	310.1050 & .1070[g]	36	14	56	63	49	63	26	23	15	11	25	8	389	300	366
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	102	101	116	16	66	30	18	16	27	16	0	0	508	585	937
- OTHER	310.4015 & .4027[i]	2162	2000	2238	1703	1830	1842	1052	1226	1145	1429	1299	1461	19387	20300	40669
OTHER YARNS - NES, INCL. CHENILLE	310.6029 - .8000	125	177	249	216	236	356	212	154	132	91	183	189	2320	3748	2127
HANDWORK YARNS & SEWING THREAD	310.9000 - .9140	245	191	263	198	152	146	125	194	185	160	213	188	2260	2561	2464
SLIVER, TOPS & ROVING	309.9000	274	111	261	158	355	349	465	151	360	2	74	148	2708	6453	7322
TEXTILE GLASS FIBER	309.2800 & .2900[j]	712	689	603	895	428	717	499	495	625	311	774	602	7350	10353	21844
GRAND TOTAL ABOVE		11881	10565	12998	12174	11390	11641	9968	8761	10198	10584	11551	10352	132072	157575	285424

SOURCE: U.S.Census Bureau.

NES - Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & .0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1110 & .1114.

f. Also includes 310.2010 & .2110.

g. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Chiefly roving. Also includes 309.9800 & .9900.

3

U.S. EXPORTS OF MAN-MADE FIBERS

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1979					1980				
		1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
RAYON+ACETATE											
FILAMENT YARN[a]											
TEXTURED	310.0006	898	973	887	698	3456	321	234	1509	521	2585
OTHER[b]	310.0026	6761	7021	5537	7451	26770	6431	6030	5118	6551	24130
MONOFILAMENTS	309.0110	197	94	84	146	521	89	32	9	19	149
STRIPS	309.2210	27	5	11	0	43	41	1	23	1	66
SUBTOTAL ABOVE		**7883**	**8093**	**6519**	**8295**	**30790**	**6882**	**6297**	**6659**	**7092**	**26930**
STAPLE+TOW - RAYON	309.4222	31216	22082	25065	18481	96844	16581	17378	18763	12095	64817
STAPLE - ACETATE	309.4219	2731	2543	2397	1992	9663	2549	1940	954	812	6255
SUBTOTAL ABOVE		**33947**	**24625**	**27462**	**20473**	**106507**	**19130**	**19318**	**19717**	**12907**	**71072**
WASTE, ADVANCED & NOT ADVANCED	309.7400	3354	3275	1291	1631	9551	1842	1773	1726	749	6090
NON-CELLULOSIC FIBERS											
FILAMENT YARN[a]											
NYLON - TEXTURED	310.0008 & .0009	8399	8332	14684	13382	44797	10848	10303	15608	17014	53773
- HIGH TENACITY[c]	310.0027	11855	9760	11595	13077	46287	13761	14502	13848	15693	57804
- OTHER	310.0029	3027	5989	5594	6613	21223	5848	6514	6218	6387	24967
POLYESTER - TEXTURED	310.0010	11914	19763	30621	23281	85579	22596	29472	30889	31953	114910
- HIGH TENACITY[c]	310.0032	3589	4304	5740	8774	22407	7995	6763	3883	4561	23202
- OTHER[d]	310.0034	1947	1879	2784	2006	8616	1103	1886	2329	2175	7493
OTHER - TEXTURED	310.0014	1344	1633	3277	3739	9993	4086	5077	5599	4243	19005
- OLEFIN	310.0040	478	495	451	566	1990	389	796	683	652	2520
- OTHER	310.0044	1129	1527	1158	1236	5050	1360	1574	1266	1065	5265
MONOFILAMENTS, ALL DENIERS											
NYLON	309.0120	3590	3787	3589	3950	14916	4364	5002	3647	2294	15307
POLYESTER[e]	309.0140	8100	5086	4653	3510	21349	3500	6050	5678	3757	18985
OTHER	309.0170	1640	1549	1383	1355	5927	1762	3233	2114	1556	8665
STRIPS	309.2220 & .2270	949	890	288	561	2688	715	1328	598	786	3427
SUBTOTAL ABOVE		**57961**	**64994**	**85817**	**82050**	**290822**	**78327**	**92500**	**92360**	**92136**	**355323**
STAPLE - NYLON	309.4240	9106	8673	7894	8184	33857	8263	5805	7693	7545	29306
- POLYESTER	309.4242	78261	54897	76790	97298	307246	84380	117941	117965	127004	447290
- ACRYLIC	309.4245	40728	47326	47675	45383	181112	39136	30799	34986	40251	145172
- OLEFIN	309.4246	813	2076	2558	1463	6910	866	861	523	1025	3275
- OTHER	309.4247	3655	4908	3259	4927	16749	4643	5582	3278	4248	17751
GROUPED FILAMENTS											
NYLON	309.3220	3115	3064	2361	2074	10614	1726	2714	1005	1837	7282
POLYESTER[d]	309.3240	17981	21002	19144	20439	78566	16041	19690	10025	9124	54880
ACRYLIC	309.3250 & .3255	4997	5125	4752	8407	23281	8704	7531	6487	4795	27517
SUBTOTAL ABOVE		**158656**	**147071**	**164433**	**188175**	**658335**	**163759**	**190923**	**181962**	**195829**	**732473**
WASTE, ADVANCED & NOT ADVANCED											
NYLON	309.7620	4505	5148	4260	4121	18034	3620	4563	4018	2319	14520
POLYESTER	309.7630	12264	16349	18871	29940	77424	22134	17087	10260	11672	61153
ACRYLIC	309.7640	1571	866	1274	1096	4807	511	511	469	861	2352
OTHER	309.7660	7396	9176	9377	11529	37478	11862	11496	7522	7515	38395
TOTAL MAN-MADE FIBER ABOVE		**287537**	**279597**	**319304**	**347310**	**1233748**	**308067**	**344468**	**324693**	**331080**	**1308308**
TEXTILE GLASS FIBER	309.2700 & .9700	10244	11867	11866	13517	47494	15164	15511	11719	12013	54407
GRAND TOTAL ABOVE		**297781**	**291464**	**331170**	**360827**	**1281242**	**323231**	**359979**	**336412**	**343093**	**1362715**

SOURCE: U.S. Census Bureau Report.

a. Includes thrown, singles and plied yarn.

b. Includes an undetermined amount of rayon tire cord and cord fabric.

c. Includes an undetermined amount of non-cellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

e. These data are obviously incorrect because of misclassification. Most of these poundages should be included with filament yarn.

14

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1980 REVISED												YEAR[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1980	1979
	TOTAL SHIPMENTS[b]													
MAN-MADE FIBER DATA[c]														
YARN+MONOFILAMENTS[d]														
ACETATE	**27.7**	**27.1**	**25.9**	**29.6**	**26.7**	**24.3**	**25.0**	**24.4**	**23.0**	**25.0**	**21.8**	**21.4**	**301.9**	**320.2**
NYLON[e] - INDUSTRIAL[f]	41.9	41.2	43.2	39.2	33.2	27.8	32.2	31.0	36.7	41.9	40.2	38.1	446.6	487.0
- LOW DENIER INDUSTRIAL[g]	3.1	3.1	4.1	3.1	3.1	2.2	2.5	2.5	3.3	3.0	2.8	3.0	35.8	36.0
- CARPET	66.5	61.7	65.0	64.4	51.8	49.2	51.2	58.5	72.3	71.0	68.8	76.5	756.9	768.9
- TEXTILE	41.0	37.8	42.6	42.9	36.8	31.2	29.4	31.5	35.4	37.7	38.8	42.5	447.6	485.8
POLYESTER - INDUSTRIAL[f]	29.3	26.9	26.2	23.8	21.1	19.0	18.7	21.9	25.6	28.2	25.1	28.5	294.3	365.3
- LOW DENIER INDUSTRIAL[g]	2.6	2.6	3.1	2.9	2.7	2.4	2.1	1.9	2.5	2.1	2.5	2.0	29.4	31.3
- TEXTILE	104.7	98.8	109.4	104.0	90.2	85.6	85.3	94.2	96.8	101.9	97.3	104.6	1172.8	1280.3
OLEFIN[h]	54.8	54.8	53.5	48.3	52.2	48.7	48.7	52.2	50.8	56.1	57.5	54.8	632.4	645.3
TOTAL NON-CELLULOSIC ABOVE[i]	**343.9**	**326.9**	**347.1**	**328.6**	**291.1**	**266.1**	**270.1**	**293.7**	**323.4**	**341.9**	**333.0**	**350.0**	**3815.6**	**4099.9**
STAPLE+TOW+FIBERFILL[j]														
RAYON	**44.2**	**40.1**	**43.9**	**41.0**	**35.0**	**34.4**	**32.1**	**34.5**	**36.9**	**38.9**	**37.3**	**33.4**	**451.7**	**542.5**
NYLON[e]	71.4	58.4	50.9	48.0	45.5	45.8	56.5	63.3	75.5	76.1	73.5	78.2	743.1	944.5
ACRYLIC+MODACRYLIC	66.8	72.5	72.9	67.1	65.5	67.0	54.7	59.0	58.3	62.8	59.4	65.1	771.1	770.2
POLYESTER	219.6	226.9	201.4	207.3	199.4	188.2	176.2	209.6	217.2	230.4	213.2	250.0	2539.4	2469.2
OLEFIN+VINYON	9.9	9.7	10.7	9.4	8.9	8.5	8.2	10.1	9.7	11.9	11.2	10.5	118.7	122.8
TOTAL NON-CELLULOSIC ABOVE	**367.7**	**367.5**	**335.9**	**331.8**	**319.3**	**309.5**	**295.6**	**342.0**	**360.7**	**381.2**	**357.3**	**403.8**	**4172.3**	**4306.7**
	END-OF-MONTH STOCK													
YARN+MONOFILAMENTS														
ACETATE	**12.8**	**11.9**	**11.1**	**11.5**	**11.3**	**12.6**	**14.8**	**14.5**	**17.7**	**16.6**	**17.2**	**18.4**	**18.4**	**11.8**
NYLON[e] - INDUSTRIAL[f]	39.5	39.7	38.0	41.2	42.1	42.8	34.5	31.7	30.0	25.6	25.5	29.4	29.4	38.9
- LOW DENIER INDUSTRIAL[g]	4.8	4.2	3.7	4.2	4.3	4.2	3.9	3.3	3.0	3.1	2.9	3.5	3.5	5.0
- CARPET	58.9	61.7	62.6	66.7	72.2	68.9	57.7	48.2	39.3	34.3	32.0	31.6	31.6	60.1
- TEXTILE	56.3	60.2	58.0	56.1	60.2	59.8	55.7	53.8	48.8	45.4	42.4	40.1	40.1	56.4
POLYESTER - INDUSTRIAL[f]	31.5	31.6	31.2	31.8	30.7	32.5	28.1	27.4	25.1	22.2	21.9	21.3	21.3	29.3
- LOW DENIER INDUSTRIAL[g]	2.5	2.8	2.4	1.7	2.0	2.5	2.7	3.7	4.0	4.1	3.9	4.2	4.2	2.8
- TEXTILE	121.4	120.9	111.3	110.5	107.3	96.9	92.5	86.3	91.7	92.7	90.0	92.3	92.3	120.2
OLEFIN[h]	71.1	69.8	72.1	76.6	78.0	75.7	73.8	73.5	70.8	70.0	66.5	66.9	66.9	67.1
TOTAL NON-CELLULOSIC ABOVE[i]	**386.0**	**390.9**	**379.3**	**388.8**	**396.8**	**383.3**	**348.9**	**327.9**	**312.7**	**297.4**	**285.1**	**289.3**	**289.3**	**379.8**
STAPLE+TOW+FIBERFILL														
RAYON	**39.5**	**38.2**	**34.3**	**35.3**	**38.6**	**37.3**	**37.6**	**34.4**	**34.8**	**31.3**	**28.2**	**27.2**	**27.2**	**35.6**
NYLON[e]	60.9	75.1	84.3	85.0	75.5	73.3	59.3	47.7	39.2	33.3	31.1	34.5	34.5	51.0
ACRYLIC+MODACRYLIC	63.1	60.4	54.9	54.6	52.5	53.0	57.5	57.8	63.1	65.0	64.7	68.8	68.8	60.7
POLYESTER	181.7	177.2	185.6	186.8	188.1	173.9	177.7	163.3	160.5	154.8	157.0	166.5	166.5	179.2
OLEFIN+VINYON	20.1	21.1	20.6	22.2	22.8	24.1	23.4	22.5	22.6	18.0	17.1	17.2	17.2	20.2
TOTAL NON-CELLULOSIC ABOVE	**325.8**	**333.8**	**345.4**	**348.6**	**338.9**	**324.3**	**317.9**	**291.3**	**285.4**	**271.1**	**269.9**	**287.0**	**287.0**	**311.1**
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	11.6	11.6	12.6	10.4	10.3	12.0	6.0	7.5	9.7	9.6	12.2	11.2	124.7	124.5
CARPET CLASS WOOL	0.9	0.8	1.0	0.7	0.7	0.8	0.6	0.9	0.8	0.7	0.7	0.6	9.2	9.9
TOTAL RAW WOOL	12.5	12.4	13.6	11.1	11.0	12.8	6.6	8.4	10.5	10.3	12.9	11.8	133.9	134.4
RAW COTTON	270.6	252.7	287.9	280.6	280.1	237.7	207.3	221.4	263.9	237.4	288.1	232.7	3060.4	3066.4

a. Year totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 herewith for annual data.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 herewith for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 21 herewith for annual data.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1981 JAN	FEB	MAR	APR	MAY	JUN	YEAR TO DATE[a] 1981	1980
	TOTAL SHIPMENTS[b]							
MAN-MADE FIBER DATA[c]								
YARN+MONOFILAMENTS[d]								
ACETATE	20.9						20.9	27.7
NYLON[e] - INDUSTRIAL[f]	34.2						34.2	41.9
- LOW DENIER INDUSTRIAL[g]	3.0						3.0	3.1
- CARPET	67.1						67.1	66.5
- TEXTILE	33.7						33.7	41.0
POLYESTER - INDUSTRIAL[f]	25.8						25.8	29.3
- LOW DENIER INDUSTRIAL[g]	2.2						2.2	2.6
- TEXTILE	94.8						94.8	104.7
OLEFIN[h]	53.9						53.9	54.8
TOTAL NON-CELLULOSIC ABOVE[i]	314.7						314.7	343.9
STAPLE+TOW+FIBERFILL[j]								
RAYON	40.9						40.9	44.2
NYLON[e]	70.7						70.7	71.4
ACRYLIC+MODACRYLIC	59.3						59.3	66.8
POLYESTER	208.6						208.6	219.6
OLEFIN+VINYON	10.8						10.8	9.9
TOTAL NON-CELLULOSIC ABOVE	349.4						349.4	367.7
	END-OF-MONTH STOCK							
YARN+MONOFILAMENTS								
ACETATE	17.0						17.0	12.8
NYLON[e] - INDUSTRIAL[f]	37.5						37.5	39.5
- LOW DENIER INDUSTRIAL[g]	3.9						3.9	4.8
- CARPET	37.7						37.7	58.9
- TEXTILE	42.8						42.8	56.3
POLYESTER - INDUSTRIAL[f]	23.4						23.4	31.5
- LOW DENIER INDUSTRIAL[g]	3.9						3.9	2.5
- TEXTILE	100.2						100.2	121.4
OLEFIN[h]	63.9						63.9	71.1
TOTAL NON-CELLULOSIC ABOVE[i]	313.3						313.3	386.0
STAPLE+TOW+FIBERFILL								
RAYON	24.2						24.2	39.5
NYLON[e]	33.3						33.3	60.9
ACRYLIC+MODACRYLIC	76.5						76.5	63.1
POLYESTER	174.2						174.2	181.7
OLEFIN+VINYON	16.6						16.6	20.1
TOTAL NON-CELLULOSIC ABOVE	300.6						300.6	325.8
WOOL & COTTON CONSUMPTION								
APPAREL CLASS WOOL								
CARPET CLASS WOOL								
TOTAL RAW WOOL								
RAW COTTON								

a. Year totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 herewith for annual data.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 herewith for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 21 herewith for annual data.

16

/ 4-13-81 C8850-1 U

Textile ORGANON

FEATURING MAN-MADE FIBERS

VOL. LII • NO. 3

MARCH
1981

MONTHLY REVIEW

U.S. MILL CONSUMPTION OF THE PRINCIPAL TEXTILE FIBERS IN 1980 TOTALED 11,983 MILLION POUNDS, 663 MILLION POUNDS, OR 5% BELOW THE 1979 LEVEL. MAN-MADE FIBER AT 8,784 MILLION POUNDS WAS DOWN 660 MILLION POUNDS, OR 7%. COTTON DECREASED 2 MILLION POUNDS AND WOOL 1 MILLION POUNDS. PG 36

FIBER AVAILABILITY PER CAPITA IN THE U.S. DURING 1980 TOTALED 53.3 POUNDS, 5.4 POUNDS, OR 9% LESS THAN THE 58.7 POUNDS OF 1979. PG 43

ORGANON PRICES TO INCREASE ON JULY FIRST

Due to increased costs, we are forced to raise the price of a subscription to the TEXTILE ORGANON by 25% as of July 1, 1981. Mailing costs alone have increased 40% since the beginning of this year.

The new subscription rates will be $125.00 for domestic and $187.50 for foreign. The single copy price will be $10.00 if sent within the United States and $15.00 if sent outside the U.S.A., with the exception of the June and November issues which will be $12.50 for domestic and $18.75 for foreign.

NON-CELLULOSIC SHIPMENTS UP MARGINALLY IN FEBRUARY

Producers' shipments of non-cellulosic fibers (except saran and spandex) last month were 665.5 million pounds, slightly above the 664.1 million pounds shipped during January this year. Deliveries of non-cellulosic fiber (except saran and spandex) for the year to date were 1,329.6 million pounds, 5½% less than the 1,406.0 million pounds shipped during January-February 1980.

NON-CELLULOSIC YARN SHIPMENTS UNCHANGED IN FEBRUARY

February shipments of non-cellulosic yarn+monofilaments (except saran and spandex), at 314.4 million pounds, were virtually unchanged from the 314.7 million pounds delivered during January 1981. However, for the first two months of 1981, shipments of 629.1 million pounds were 6% less than the 670.8 million pounds delivered during the corresponding 1980 period.

NON-CELLULOSIC STAPLE SHIPMENTS INCREASE ½% IN FEBRUARY

Shipments of non-cellulosic staple+tow+fiberfill increased ½% last month, to 351.1 million pounds from the 349.4 million pounds shipped during the month of January 1981. However, January-February 1981 deliveries of 700.5 million pounds were 4½% below the 735.2 million pounds shipped in the corresponding 1980 period.

JANUARY AND FEBRUARY SHIPMENTS COMPARED

Following is a comparison of total February shipments of non-cellulosic yarn+monofilaments (except saran and spandex) with January (million pounds), and the percentage change, respectively: nylon industrial 34.4 & 34.2 & +½%; low denier industrial 3.0 & 3.0 & unchanged; carpet 63.8 & 67.1 & -5%; textile 36.6 & 33.7 & +8½%; polyester industrial 24.7 & 25.9 & -4½%; low denier industrial 2.1 & 2.1 & unchanged; textile 96.0 & 94.8 & +1½%; olefin 53.8 & 53.9 & unchanged and the total of these fibers 314.4 & 314.7 &

unchanged.

Similarly, for non-cellulosic staple+tow+fiberfill, the corresponding data are: nylon 67.5 & 70.7 & -4½%; acrylic+modacrylic 62.2 & 59.3 & +5%; polyester 211.1 & 208.6 & +1%; olefin+vinyon 10.3 & 10.8 & -4½% and the total 351.1 & 349.4 & +½%.

CELLULOSIC SHIPMENTS DECLINE 8% IN FEBRUARY

February shipments of acetate filament yarn and rayon staple+tow totaled 56.9 million pounds, 8% less than the 61.8 million pounds delivered during January 1981. Deliveries for the first two months of 1981, at 118.7 million pounds, were 15% below the 139.1 million pounds shipped during the corresponding 1980 period.

Rayon staple+tow deliveries during February were 35.4 million pounds, 13% less than the 40.9 million pounds shipped during January. Year-to-date shipments of 76.3 million pounds were 9½% less than the 84.3 million pounds delivered during January-February 1980.

TEXTILE FIBER CONSUMPTION

Annual data on three principal aspects of U.S. fiber consumption from 1970 through 1980 (mill consumption, domestic consumption and per capita consumption) are presented herewith. Earlier data on these series back to 1920 were given on pages 26-27 of the January 1962 ORGANON issue and subsequent revisions for the years 1955-1964 are shown on page 22 of the March 1971 issue. Those for the years 1965-1969 are shown on page 28 of the March 1980 issue.

MILL CONSUMPTION - METHOD

The data of columns 1, 4, 12 and 15 presented in the page 36 table show U.S. fiber producers' domestic shipments of the specified man-made fibers. To each of these appropriate categories, there is added the corresponding man-made fiber imports of raw materials such as yarn, staple and tow, the import classes being detailed in the table footnote. The sum of the domestic shipments plus raw fiber imports gives the domestic mill consumption of these fibers shown in columns 3, 6, 14 and 17.

Imports of textile glass fiber are not shown separately in the page 36 table. Thus, column 23 represents mill consumption of textile glass fiber. For greater detail of domestic shipments and imports of textile glass fiber see page 22 of the February 1981 ORGANON issue.

(Continued on page 40)

CONTENTS

Monthly Review 33
  Monthly Imports for Consumption 46
  Imports by Country of Origin 47
Textile Fiber Consumption 34
  Mill Consumption - Method 34
  Mill Consumption - Trends 40
  Mill Consumption by Fiber 40
  Domestic Consumption - Method 41
  Domestic Consumption - Trends 41
  Import-Export Analysis 42
  Utility Poundage 42
  Fiber Availability Per Capita 43
  Per Capita Apparel Availability 43
  Consumption Per Consuming Unit 43
Selected Textile Fiber Data 48

Textile **ORGANON**

CHARLES A. WHITEHEAD, *EDITOR*
MICHAEL R. KEMP, *ASSOCIATE EDITOR*
DOROTHY A. DRISCOLL, *CIRCULATION MGR.*
PUBLISHED BY
TEXTILE ECONOMICS BUREAU, INC.
489 FIFTH AVE., NEW YORK, N. Y. 10017

An arrangement of authentic market data, especially important to the United States Man-Made Fiber Industry, published monthly in the interest of good business.

Copyright 1981 by Textile Economics Bureau, Inc. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription rates as of January 1979 (payable in U.S. dollars or equivalent, with order):

	U.S.A.	OTHER
Annually	$100.00	$150.00
Single Issues		
June	10.00	15.00
November	10.00	15.00
All Others	8.00	12.00

All U.S. issues will be sent by first class mail and those to all other countries by airmail.

U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER & MANUFACTURES, COTTON MANUFACTURES & WOOL MANUFACTURES

MILLION POUNDS

PRODUCTS	3RD Q 1979			4TH Q 1979			1ST Q 1980			2ND Q 1980			3RD Q 1980			4TH Q 1980		
	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]
RAYON+ACETATE																		
YARN+MONOFILAMENTS	3.5	6.5	3.0 E	2.8	8.3	5.5 E	2.0	6.9	4.9 E	2.5	6.3	3.8 E	1.8	6.7	4.9 E	2.0	7.1	5.1 E
STAPLE+TOW[b]	2.7	27.4	24.7 E	1.8	20.5	18.7 E	2.1	19.1	17.0 E	2.0	19.3	17.3 E	2.7	19.7	17.0 E	3.5	12.9	9.4 E
WASTE	0.1	1.3	1.2 E	0.2	1.7	1.5 E	0.1	1.9	1.8 E	0.1	1.8	1.7 E	0.1	1.7	1.6 E	0.1	0.8	0.7 E
SUBTOTAL ABOVE	**6.3**	**35.2**	**28.9 E**	**4.8**	**30.5**	**25.7 E**	**4.2**	**27.9**	**23.7 E**	**4.6**	**27.4**	**22.8 E**	**4.6**	**28.1**	**23.5 E**	**5.6**	**20.8**	**15.2 E**
NON-CELLULOSIC FIBERS																		
YARN+MONOFILAMENTS	4.3	85.9	81.6 E	3.7	82.0	78.3 E	4.8	78.3	73.5 E	5.4	92.5	87.1 E	5.6	92.3	86.7 E	3.8	92.1	88.3 E
STAPLE+TOW	10.0	164.5	154.5 E	8.9	188.1	179.2 E	9.6	163.8	154.2 E	9.8	190.9	181.1 E	7.1	182.0	174.9 E	9.1	195.8	186.7 E
WASTE	5.3	33.7	28.4 E	4.7	46.7	42.0 E	5.8	38.1	32.3 E	5.1	33.7	28.6 E	4.4	22.3	17.9 E	6.2	22.4	16.2 E
SUBTOTAL ABOVE	**19.6**	**284.1**	**264.5 E**	**17.3**	**316.8**	**299.5 E**	**20.2**	**280.2**	**260.0 E**	**20.3**	**317.1**	**296.8 E**	**17.1**	**296.6**	**279.5 E**	**19.1**	**310.3**	**291.2 E**
TOTAL FIBER ABOVE[c]	**25.9**	**319.3**	**293.4 E**	**22.1**	**347.3**	**325.2 E**	**24.4**	**308.1**	**283.7 E**	**24.9**	**344.5**	**319.6 E**	**21.7**	**324.7**	**303.0 E**	**24.7**	**331.1**	**306.4 E**
MAN-MADE FIBER MANUFACTURES[d]																		
SLIVER, TOPS & ROVING	1.4	3.1	1.7 E	0.9	3.4	2.5 E	0.7	4.0	3.3 E	0.9	3.3	2.4 E	1.0	2.4	1.4 E	0.2	3.4	3.2 E
SPUN YARNS	5.7	8.3	2.6 E	6.0	10.0	4.0 E	7.3	7.4	0.1 E	6.6	8.2	1.6 E	4.1	7.4	3.3 E	4.9	9.8	4.9 E
THREAD & CRAFT YARNS	0.5	1.5	1.0 E	0.7	2.9	2.2 E	0.7	2.2	1.5 E	0.5	1.7	1.2 E	0.5	1.9	1.4 E	0.6	1.6	1.0 E
TIRE CORD & FABRIC	+	21.3	21.3 E	+	24.0	24.0 E	+	24.3	24.3 E	+	32.0	32.0 E	+	27.7	27.7 E	0.1	31.5	31.4 E
WOVEN FABRIC	15.9	54.9	39.0 E	12.1	63.5	51.4 E	16.3	55.8	39.5 E	18.0	63.7	45.7 E	17.2	60.3	43.1 E	15.8	70.0	54.2 E
KNIT FABRIC	2.1	3.8	1.7 E	1.9	4.6	2.7 E	1.5	5.2	3.7 E	1.4	5.9	4.5 E	1.6	5.8	4.2 E	1.5	6.3	4.8 E
NARROW FABRIC	2.1	3.0	0.9 E	1.7	3.3	1.6 E	2.5	4.9	2.4 E	2.1	7.8	5.7 E	1.9	6.7	4.8 E	1.6	6.1	4.5 E
APPAREL - KNIT	54.8	14.0	92.9 I	42.9	16.9	66.0 I	35.8	29.2	46.2 I	50.3	33.8	62.9 I	61.9	32.1	87.8 I	39.7	32.0	54.5 I
- NOT KNIT	52.1			40.0			39.6			46.4			58.0			46.8		
HOME FURNISHINGS	13.1	15.5	19.2 E	12.0	21.9	26.7 E	11.5	25.2	31.6 E	13.8	31.3	34.5 E	13.8	25.9	27.4 E	13.5	29.0	31.0 E
OTHER		16.8			16.8			17.9			17.0			15.3			15.5	
TOTAL MANUFACTURES	**147.7**	**142.2**	**5.5 I**	**118.2**	**167.3**	**49.1 E**	**115.9**	**176.1**	**60.2 E**	**140.0**	**204.7**	**64.7 E**	**160.0**	**185.5**	**25.5 E**	**124.7**	**205.2**	**80.5 E**
TOTAL MAN-MADE FIBER & MANUFACTURES	**173.6**	**461.5**	**287.9 E**	**140.3**	**514.6**	**374.3 E**	**140.3**	**484.2**	**343.9 E**	**164.9**	**549.2**	**384.3 E**	**181.7**	**510.2**	**328.5 E**	**149.4**	**536.3**	**386.9 E**
COTTON MANUFACTURES[e]	**195.1**	**113.2**	**81.9 I**	**177.5**	**132.6**	**44.9 I**	**197.3**	**140.8**	**56.5 I**	**217.1**	**139.9**	**77.2 I**	**222.9**	**125.5**	**97.4 I**	**173.6**	**116.9**	**56.7 I**
WOOL MANUFACTURES[f]	**34.2**	**3.5**	**30.7 I**	**22.9**	**4.7**	**18.2 I**	**22.2**	**4.0**	**18.2 I**	**27.4**	**8.2**	**19.2 I**	**32.1**	**6.4**	**25.7 I**	**21.6**	**5.7**	**15.9 I**

SOURCES: The man-made fiber import and export data are from the U.S. Bureau of the Census.

The man-made, cotton and wool manufactures data are from *Cotton and Wool Situation,* a publication of the U.S. Department of Agriculture.

The total man-made fiber and manufactures import, export and balance data of this table cover the cellulosic and non-cellulosic fibers only; textile glass fiber is excluded.

a. E means a net export balance; I is a net import balance.

b. Acetate tow is excluded.

c. The fibers included are shown as "Total Man-Made Fiber Above" on page 46 herewith.

d. Man-made fiber equivalent.

e. Raw cotton equivalent. Data are similar to those on page 37 herewith.

f. Raw wool content. The data differ from those on page 37 herewith to the extent that noils and waste are included here.

U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF FIBER & PRODUCTS

MILLION POUNDS & *Percent*

YEAR	MAN-MADE FIBER MILL CONSUMPTION = PRODUCERS' SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)																						TEXTILE GLASS FIBER TOTAL
	RAYON+ACETATE											NON-CELLULOSIC FIBER											
	YARN+MONOFILAMENTS			STAPLE+TOW			WASTE					YARN+MONOFILAMENTS			STAPLE+TOW			WASTE					
	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET	TOTAL	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
1970	695.9	3.7	699.6	634.2	80.6	714.8	34.5	0.1	22.9	11.7	1,426.1	1,682.6	120.8	1,803.4	1,682.1	57.7	1,739.8	136.3	21.7	31.3	126.7	3,669.9	404.9
1971	729.3	5.2	734.5	669.8	81.3	751.1	36.3	--	15.9	20.4	1,506.0	2,100.1	234.4	2,334.5	1,964.1	93.3	2,057.4	157.8	36.2	29.4	164.6	4,556.5	466.7
1972	632.8	10.8	643.6	718.4	51.3	769.7	38.5	--	23.6	14.9	1,428.2	2,689.8	224.5	2,914.3	2,363.1	103.7	2,466.8	202.7	48.0	63.5	187.2	5,568.3	569.2
1973	589.9	18.1	608.0	734.5	47.4	781.9	36.8	--	37.5	-0.7	1,389.2	3,273.7	140.1	3,413.8	2,848.4	112.8	2,961.2	274.8	47.8	98.6	224.0	6,599.0	676.0
1974	473.4	9.2	482.6	589.2	38.7	627.9	29.9	0.2	33.0	-2.9	1,107.6	3,142.3	92.1	3,234.4	2,450.5	73.2	2,523.7	246.4	46.3	91.2	201.5	5,959.6	630.8
1975	368.6	9.2	377.8	385.4	37.9	423.3	13.2	0.1	12.4	0.9	802.0	3,214.3	53.8	3,268.6	2,553.5	55.2	2,608.7	228.7	25.0	50.0	203.7	6,081.0	533.5
1976	314.5	25.1	339.6	472.0	43.2	515.2	14.7	0.4	14.6	0.5	855.3	3,147.2	64.0	3,211.2	3,018.5	67.3	3,085.8	262.3	30.5	70.2	222.6	6,519.6	677.6
1977	327.5	23.5	351.0	452.9	57.8	510.7	18.5	0.6	12.6	6.5	868.2	3,461.4	92.5	3,553.9	3,373.1	52.9	3,426.0	291.0	23.2	66.1	248.1	7,228.0	791.3
1978	337.6	25.7	363.3	466.2	41.1	507.3	15.7	0.4	7.0	9.1	879.7	3,641.9	52.2	3,694.1	3,505.5	60.5	3,566.0	263.9	26.0	88.7	201.2	7,461.3	886.7
1979	343.4	13.3	356.7	449.4	16.5	465.9	17.2	0.8	9.6	8.4	831.0	3,797.6	20.0	3,817.6	3,713.5	39.3	3,752.8	236.4	21.1	137.7	119.8	7,690.2	922.6
1980	316.7	8.3	325.0	397.7	10.3	408.0	13.5	0.3	6.1	7.7	740.7	3,532.0	19.6	3,551.6	3,482.5	35.6	3,518.1	194.4	21.5	116.4	99.5	7,169.2	874.4

YEAR	MILL CONSUMPTION OF 4 FIBERS										DOMESTIC CONSUMPTION OF 3 FIBERS (CONS) = MILL CONSUMPTION+IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS											
	MAN-MADE FIBER[a]		COTTON		WOOL		SILK		TOTAL		MAN-MADE FIBER			COTTON			WOOL			TOTAL		
	LB	%	LB	%	LB	%	LB	%	LB	%	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS
	(24)		(25)		(26)		(27)		(28)		(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1970	5,500.9	*57.6*	3,773.6	*39.5*	273.3	*2.9*	1.8	--	9,549.6	*100*	329.3	147.1	5,683.1	463.1	199.2	4,037.5	85.9	4.9	354.3	878.3	351.2	10,074.9
1971	6,529.2	*60.9*	3,965.1	*37.0*	219.3	*2.1*	1.7	--	10,715.3	*100*	451.1	146.7	6,833.6	492.6	226.4	4,231.3	66.2	9.4	276.1	1,009.9	382.5	11,341.0
1972	7,565.7	*64.9*	3,849.8	*33.0*	246.9	*2.1*	2.1	--	11,664.5	*100*	480.5	177.6	7,868.6	610.7	290.4	4,170.1	63.0	30.6	279.3	1,154.2	498.6	12,318.0
1973	8,664.2	*69.3*	3,643.3	*29.2*	182.1	*1.5*	3.3	--	12,492.9	*100*	465.3	288.2	8,841.3	563.5	325.2	3,881.6	61.3	30.8	212.6	1,090.1	644.2	12,935.5
1974	7,698.0	*69.2*	3,306.1	*29.7*	116.5	*1.1*	2.6	--	11,123.2	*100*	371.3	390.7	7,678.6	502.7	392.5	3,416.3	53.3	23.0	146.8	927.3	806.2	11,241.7
1975	7,416.5	*69.9*	3,068.7	*28.9*	132.0	*1.2*	1.0	--	10,618.2	*100*	400.4	322.4	7,494.5	501.3	353.7	3,216.3	48.6	19.2	161.4	950.3	695.3	10,872.2
1976	8,052.5	*69.5*	3,389.0	*29.2*	145.9	*1.3*	2.8	--	11,590.2	*100*	479.5	352.2	8,179.8	708.6	413.2	3,684.4	66.7	13.9	198.7	1,254.8	779.3	12,062.9
1977	8,887.5	*72.9*	3,169.8	*26.0*	133.9	*1.1*	1.6	--	12,192.8	*100*	530.7	367.6	9,050.6	669.4	369.5	3,469.7	85.9	11.5	208.3	1,268.0	748.6	12,728.6
1978	9,227.7	*74.4*	3,040.4	*24.5*	141.6	*1.1*	2.0	--	12,411.7	*100*	642.6	441.7	9,428.6	845.4	355.7	3,530.1	92.2	11.6	222.2	1,580.2	809.0	13,180.9
1979	9,443.8	*74.7*	3,066.4	*24.2*	134.4	*1.1*	1.5	--	12,646.1	*100*	525.0	596.6	9,372.2	746.1	478.0	3,334.5	80.6	14.0	201.0	1,351.7	1,088.6	12,907.7
1980	8,784.3	*73.3*	3,064.4	*25.6*	133.9	*1.1*	+	--	11,982.6	*100*	540.6	771.5	8,553.4	810.9	523.1	3,352.2	85.1	23.8	195.2	1,436.6	1,318.4	12,100.8

a. The man-made fiber data include textile glass fiber as shown in Column 23 in the upper section. For detail on producers' shipments and imports of textile glass fiber, see page 21 of the February 1981 issue.

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ( )

All Census import commodity numbers are those of January 1978; export commodity numbers are those of January 1978.

1, 4, 7, 12, 15, 18 & 23 - February 1981 ORGANON, page 21.
2 - Import Classes 309.0310, .0610, .2000, 310.0106, .0130, .0206, .0230, .0510 & .0610.
5 - Import Classes 309.3010, .3110, .4320 & .4325.
8 - Import Classes 309.6615 & .7510.
9 - Export Class 309.7400.
13 - Import Classes 309.0200, .0330-.0365, .0500, .0630-.0665, .2100, .2500, 310.0109-.0114, .0149-.0170, .0209-.0214, .0249-.0270, .0530, .0550, .0630 & .0650.
16 - Import Classes 309.3030-.3065, .3130-.3165 & .4338-.4355.
19 - Import Classes 309.6000, .6625-.7000 & .7525-.7555.
20 - Export Classes 309.7620, .7630, .7640 & .7660.
25 - U.S. Census Bureau Report M22P. See text page 40.
26 - U.S. Census Bureau Report M22D. See text page 40.
27 - Import Classes 308.0200-.2000.
29, 30, 32, 33, 35 & 36 - *Cotton and Wool Situation* (U.S. Department of Agriculture).

CERTAIN TOTALS IN THE TABLES

(Obvious totals such as Columns 1+2=3, 4+5=6, etc., are not described here.)

10 - Columns 7+8-9	24 - Columns 11+22+23	34 - Columns 25+32-33
21 - Columns 18+19-20	31 - Columns 24+29-30	37 - Columns 26+35-36

RAW FIBER EQUIVALENT OF IMPORTS & EXPORTS OF MAN-MADE FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

COMMODITY	MAN-MADE FIBER							COTTON							WOOL						
	ANNUAL AVERAGE							ANNUAL AVERAGE							ANNUAL AVERAGE						
	1970-1974	1975-1979	1976	1977	1978	1979	1980	1970-1974	1975-1979	1976	1977	1978	1979	1980	1970-1974	1975-1979	1976	1977	1978	1979	1980
IMPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC.[a]	25.4	34.1	19.2	39.7	59.7	37.5	30.2	27.1	18.9	26.2	13.5	30.8	12.4	19.4	8.2	5.4	5.8	6.6	6.1	4.2	4.2
CLOTH[b]	102.5	87.7	84.2	87.9	109.6	81.6	81.4	281.1	266.6	325.2	244.6	299.9	236.7	258.4	13.2	17.4	12.2	18.7	25.8	21.7	21.1
SUBTOTAL	127.9	121.8	103.4	127.6	169.3	119.1	111.6	308.2	285.5	351.4	258.1	330.7	249.1	277.8	21.4	22.8	18.0	25.3	31.9	25.9	25.3
MANUFACTURED PRODUCTS																					
WEARING APPAREL[c]	253.4	357.1	344.4	366.1	425.6	359.8	378.6	158.7	344.2	293.2	348.3	430.2	426.3	463.8	30.4	36.8	33.0	44.1	44.9	39.2	41.7
INDUSTRIAL[d]	7.6	0.7	0.2	2.7	0.1	0.1	0.1	8.3	5.7	6.1	5.6	6.7	5.6	10.1	NOMINAL POUNDAGES INCLUDED IN OTHER						
HOUSE FURNISHINGS[e]	30.6	36.0	31.5	34.3	47.6	46.0	50.3	36.9	40.7	38.4	39.4	57.7	44.4	45.4	11.7	14.1	14.4	15.3	14.5	14.4	17.3
ALL OTHER[f]								14.4	18.0	19.5	18.0	20.1	20.7	13.8	2.4	1.1	1.3	1.2	0.9	1.1	0.8
SUBTOTAL	291.6	393.6	376.1	403.1	473.3	405.9	429.0	218.3	408.6	357.2	411.3	514.7	497.0	533.1	44.5	52.0	48.7	60.6	60.3	54.7	59.8
TOTAL IMPORTS	419.5	515.6	479.5	530.7	642.6	525.0	540.6	526.5	694.1	708.6	669.4	845.4	746.1	810.9	65.9	74.8	66.7	85.9	92.2	80.6	85.1
EXPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC.[a]	23.3	39.5	36.9	39.5	37.7	55.8	53.3	20.7	23.7	18.5	16.9	32.0	34.2	47.0	14.0	5.5	5.7	3.2	2.6	4.2	4.8
CLOTH[g]	113.0	186.0	165.6	153.2	187.5	257.6	298.5	170.0	224.9	248.4	204.0	187.8	267.1	212.3	0.7	1.2	1.0	0.9	1.2	1.5	1.6
SUBTOTAL	136.3	225.5	202.5	192.7	225.2	313.4	351.8	190.7	248.6	266.9	220.9	219.6	301.3	259.3	14.7	6.7	6.7	4.1	3.8	5.7	6.4
MANUFACTURED PRODUCTS																					
WEARING APPAREL	21.5	43.1	34.4	40.3	48.6	60.5	127.1	32.9	63.0	54.3	65.3	61.8	90.9	180.8	1.8	3.6	2.2	2.4	5.5	5.9	14.9
INDUSTRIAL[d]	11.2	46.0	25.6	35.5	63.9	87.0	115.5	17.8	23.4	25.5	24.5	23.8	25.2	19.6	NOMINAL POUNDAGES INCLUDED IN OTHER						
HOUSE FURNISHINGS[h]	24.3	52.5	51.9	56.6	43.8	65.6	111.4	23.5	36.9	41.0	37.3	32.2	42.2	43.0	1.7	1.9	2.9	2.7	0.8	0.3	0.4
ALL OTHER[i]	36.8	49.0	37.8	42.5	60.2	70.1	65.7	21.8	22.1	25.5	21.5	18.1	18.4	20.4	1.5	1.9	2.1	2.3	1.5	2.1	2.1
SUBTOTAL	93.8	190.6	149.7	174.9	216.5	283.2	419.7	96.0	145.4	146.3	148.6	135.9	176.7	263.8	5.0	7.4	7.2	7.4	7.8	8.3	17.4
TOTAL EXPORTS	230.1	416.1	352.2	367.6	441.7	596.6	771.5	286.7	394.0	413.2	369.5	355.7	478.0	523.1	19.7	14.1	13.9	11.5	11.6	14.0	23.8
NET EXPORTS (+) OR NET IMPORTS (-)	-189.4	-99.5	-127.3	-163.1	-200.9	+71.6	+230.9	-239.8	-300.1	-295.4	-299.9	-489.7	-268.1	-287.8	-46.2	-60.7	-52.8	-74.4	-80.6	-66.6	-61.3

SOURCE: U.S. Department of Agriculture, *Cotton and Wool Situation.*

a. Includes sliver, tops, roving, plied (textured and other), thrown and spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here; rather they are included in Column 13 on page 36 above.

b. Includes broad & narrow woven fabrics and knit cloth, except that cotton narrow fabrics and wool knit fabrics are included in All Other.

c. Wool includes lace & lace articles, veils & veilings and nets & nettings.

d. The man-made fiber data are tire cord & tire cord fabric.

e. Includes carpets & rugs. Lace window curtains are in All Other.

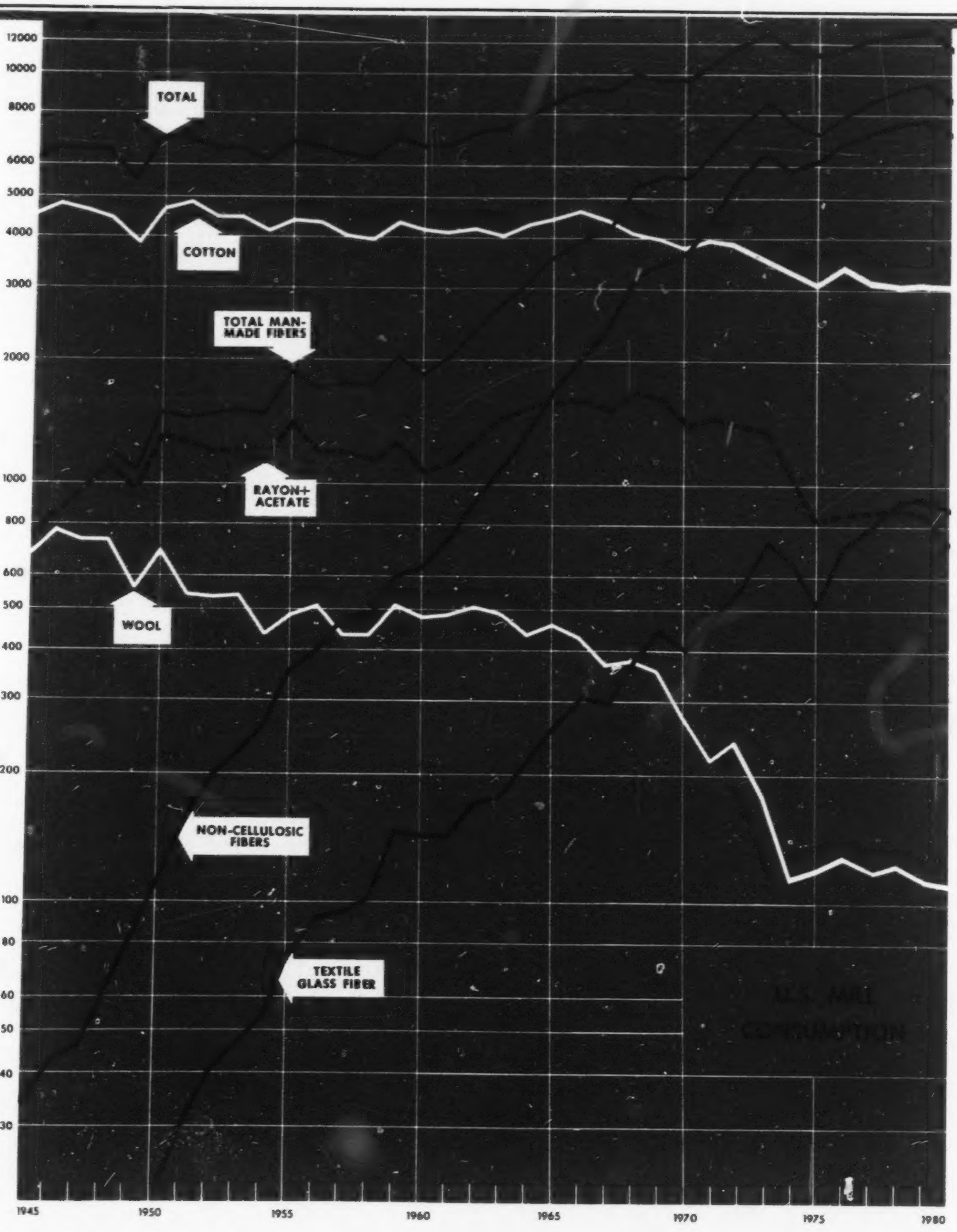
f. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc. Wool includes knit fabric in the piece, but not lace & lace articles, which are in Wearing Apparel.

g. Includes broad & narrow woven fabrics and knit cloth. Cotton also includes table damask, tire cord & fabric. Cotton knit fabrics and narrow fabrics are included in All Other.

h. Includes carpets & rugs.

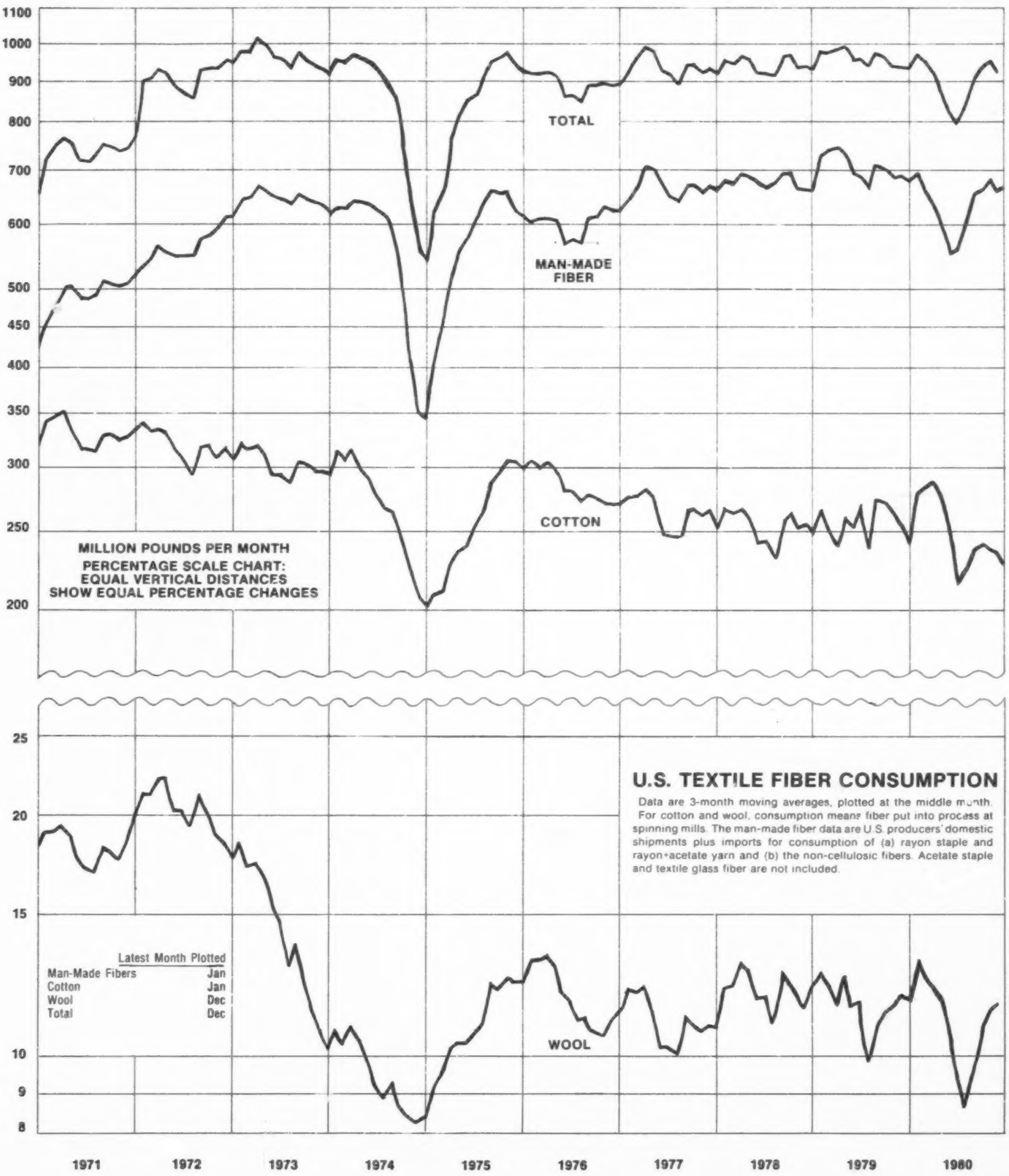
i. Includes such products as lace & lace articles, polishing & dustcloths, braids, tassels, etc. Cotton also includes knits and narrow fabric.

Note: In the case of blended or mixed fiber products, the poundages of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with man-made fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption; see text page 41.



PERCENTAGE SCALE CHART

6



U.S. TEXTILE FIBER CONSUMPTION

Data are 3-month moving averages, plotted at the middle month. For cotton and wool, consumption means fiber put into process at spinning mills. The man-made fiber data are U.S. producers' domestic shipments plus imports for consumption of (a) rayon staple and rayon+acetate yarn and (b) the non-cellulosic fibers. Acetate staple and textile glass fiber are not included.

	Latest Month Plotted
Man-Made Fibers	Jan
Cotton	Jan
Wool	Dec
Total	Dec

(Continued from page 34)

The yarn+monofilaments imports as shown in columns 2 and 13 on page 36 herewith comprise yarn singles, monofilaments and strips. Plied yarns are **not** included here because they are considered a semimanufactured product and thus are counted as part of **domestic** consumption rather than **mill** consumption.

Producers' waste shipments are handled differently in that columns 7 and 18 represent the producers' **total** shipments of waste fiber rather than **domestic** shipments. This is because the producer sends his waste to a waste processor who reclaims the waste and either ships it to a domestic customer or exports it. Thus, at the time a producer makes a waste shipment, he does not know its ultimate destination. Thus, the producers' total waste shipments are added to the imports of waste and the exports of waste are subtracted to give mill consumption of waste.

The sum of columns 11 (3+6+10), 22 (14+17+21) and 23 gives the total deliveries of man-made fiber to domestic mills, as presented in column 24. In this survey, these deliveries are considered as the equivalent of mill consumption or the fibers put into process by mills. Any change in mill holdings of unopened cases or bales is not taken into account.

The cotton data of column 25 agree with those presented in these series in the usual monthly ORGANON table, i.e., pages 48 herewith and 31 of the February 1981 issue. The December 1980 cotton consumption figure has been revised to 236.7 and for the year 1980 to 3,064.4 from the figures published in the February 1981 issue. Cotton is regarded as consumed when the bale is opened at the spinning mill. The data are based on Census Series M22P figures, adjusted to a calendar-month basis. Through 1970, the data are based on the relationship between the number of running bales and the equivalent 480-pound net weight bales. Beginning August 1972, the M22P reports show both bales and pounds.

The silk data of column 27 comprise imports for consumption of raw silk, as well as tussah, cocoons, noils & waste, i.e., reexports are not taken into account.

The scoured-basis wool data presented in column 26 consist of carpet class wool plus the following components of apparel class wool: the production of apparel wool tops combed or worsted combs; shorn & pulled wool of the sheep (domestic and foreign duty-paid) consumed in spinning other than carpet yarns on the woolen system; and other wool of the sheep (tops, noils, etc.) consumed for spinning into other than carpet & rug yarns on the woolen system. These data are the same as those presented in the monthly ORGANON table.

Not included here, nor in the monthly ORGANON data, are imported wool tops and yarns; wool consumed in spinning on systems other than the woolen & worsted, e.g., the cotton spinning system; reprocessed & reused wool; and animal hair other than the fleece of the sheep or lamb, i.e., hair of the Angora goat (mohair), cashmere goat, camel, alpaca, llama, vicuna, etc.

MILL CONSUMPTION DECLINED 5% IN 1980

Mill consumption of man-made fibers, cotton, wool and silk totaled 11,982.6 million pounds, a decline of 5% from the record 12,646.1 million pounds consumed by U.S. mills in 1979. The 1980 total comprised of 8,784.3 million pounds of man-made fibers, 3,064.4 million pounds of cotton and 133.9 million pounds of wool. Silk usage was less than 50,000 pounds. Thus, man-made fibers comprised 73.3% of fiber usage, cotton 25.6% and wool 1.1%.

MILL CONSUMPTION OF MAN-MADE FIBERS DECLINED 7% IN 1980

Consumption of man-made fibers in 1980 by domestic mills totaled 8,784.3 million pounds, 7% less than the record 9,443.8 million pounds consumed during 1979. Thus, in 1980, man-made fibers represented 73.3% of mill usage of fibers, down from 74.7% in 1979.

Mill consumption of cellulosic fibers in 1980 totaled 740.7 million pounds, 11% less than the 831.0 million pounds used by mills in 1979. This represented 6.2% of 1980 mill consumption as against 6.6% in 1979. The 740.7 million pounds of cellulosic fibers used by US mills was the least used since 769.9 million pounds were consumed in 1945.

In 1980, US mills consumed 7,169.2 million pounds of non-cellulosic fibers, 7% less than the record 7,690.2 million pounds used in 1979. This 1980 usage figure represented 59.8% of all fibers used as compared with 60.8% the previous year.

Textile glass fiber consumption in 1980 totaled 874.4 million pounds, 5% below the record 922.6 million pounds consumed in 1979.

MILL CONSUMPTION BY FIBER

The table at the top of page 41 details US mill consumption (billion pounds) by generic fiber type for the 11-year period 1970-1980. A comparision of 1980 with 1979 shows that the level of usage remained unchanged for all fibers except nylon and polyester.

MILL CONSUMPTION BY FIBER

BILLION POUNDS

YEAR	RAYON	ACETATE[a]	NYLON[b]	ESTER[c]	ACRYLIC[d]	OLEFIN	GLASS	COTTON	WOOL	TOTAL
1970	0.9	0.5	1.3	1.6	0.5	0.2	0.4	3.8	0.3	9.5
1971	1.0	0.5	1.7	2.0	0.5	0.3	0.5	4.0	0.2	10.7
1972	1.0	0.4	2.1	2.5	0.6	0.4	0.6	3.9	0.2	11.7
1973	1.0	0.4	2.3	3.1	0.7	0.5	0.7	3.6	0.2	12.5
1974	0.8	0.3	2.0	2.9	0.6	0.5	0.6	3.3	0.1	11.1
1975	0.5	0.3	2.0	3.1	0.5	0.5	0.5	3.1	0.1	10.6
1976	0.6	0.3	2.1	3.3	0.6	0.5	0.7	3.4	0.1	11.6
1977	0.6	0.3	2.3	3.6	0.7	0.6	0.8	3.2	0.1	12.2
1978	0.6	0.3	2.5	3.7	0.6	0.7	0.9	3.0	0.1	12.4
1979	0.5	0.3	2.7	3.8	0.6	0.7	0.9	3.1	0.1	12.7
1980	0.5	0.3	2.3	3.5	0.6	0.7	0.9	3.1	0.1	12.0

a. Acetate includes triacetate. Cigarette tow is excluded.
b. Nylon includes aramid.
c. Ester means polyester.
d. Acrylic includes modacrylic.

Nylon usage declined 15% to 2.3 billion pounds and polyester usage declined 8% to 3.5 billion pounds.

Polyester surpassed cotton as the most widely used textile fiber in 1977 after equaling cotton usage in 1975. In 1980, polyester was the most widely used fiber, followed by cotton and nylon. These three fibers alone represent some 74% of mill usage of all fibers.

DOMESTIC CONSUMPTION - METHOD

The domestic consumption of cotton, wool and the man-made fibers is calculated by adjusting mill consumption for the net imports or exports of semimanufactured goods (yarn, thread, cloth, etc.) and manufactured goods (wearing apparel, carpets, draperies, etc.). The import-export trade data for such items as tire cord, plied yarns, spun yarns and such are already available in pounds. But with products such as shirts, sweaters, hosiery, certain piece goods, etc., the import and export data of which are reported in yards, dozens, etc., appropriate conversion factors must be applied to obtain the poundage equivalents.

The U.S. Department of Agriculture makes studies of these import and export conversion factors and, based on special surveys made in conjunction with the Census Bureau, has calculated the import and export poundage series shown in the Domestic Consumption section of the page 36 table.

For these import and export data calculations, the Department has added certain waste factors to the derived poundages, so as to bring them to the same raw fiber basis used in the mill consumption section.

Details of the raw fiber equivalent of the imports and exports of man-made fiber, cotton and wool semimanufactures and manufactures are presented in the table on page 37 as annual averages for the 5 years 1970-1974 and 1975-1979, as well as for the single years 1975 through 1980.

Details of imports and exports of raw fiber, semimanufactures and manufactures of man-made fiber on a quarterly basis are also shown on page 35 herewith.

Note that the domestic consumption of man-made fibers is overstated to the extent that exports of throwster-textured yarn are included. When a shipment of feed yarn is made to a throwster, it is recorded as a domestic shipment and included in mill consumption. However, textured yarn exports are considered fiber exports rather than semimanufactured exports by the U.S.D.A. Census data do not distinguish between producer-textured yarn exports (not included in mill consumption) and throwster-textured yarn exports. Thus domestic consumption is overstated by this difference (total textured yarn exports less producer-textured yarn exports).

DOMESTIC CONSUMPTION OF FIBERS DECLINED 6½% IN 1980

The lower right-hand section of the page 36 table shows that domestic consumption of cotton, wool and man-made fibers in 1980 totaled 12,100.8 million pounds. The 1980 total was 6½% less than the 12,907.7 million pounds consumed in 1979. The 1980 total consisted of mill consumption (silk excluded) at 11,982.6 million pounds (down 662.0 million pounds) plus imports of 1,436.6 million pounds of semimanufactured and manufactured textile products (up 84.9 million pounds) less record exports of 1,318.4 million pounds of these products (up 229.8 million pounds). Thus, the 1980 net import balance for these semimanufactured and manufactured textile products amounted to 118.2 million pounds, the lowest import balance since 1964.

Domestic consumption of man-made fibers in 1980 declined 8½%, to 8,553.4 million pounds from 9,372.2 million pounds in 1979. Man-made fibers had an export balance of 230.9 million pounds for semimanufactured and manufactured products in 1980 as compared with an export balance of 71.6 million pounds the previous year.

Domestic consumption of cotton increased by ½% in 1980, to 3,352.2 million pounds as the import balance of semimanufactured and manufactured textile products increased by 19.7 million pounds (offsetting the 2.0 million pound decline in mill consumption) to 287.8 million pounds. Domestic consumption of wool declined 3% in 1980 to 195.2 million pounds.

DOMESTIC CONSUMPTION EXAMINED

The small text table below shows the 3-fiber (cotton+wool+man-made) mill consumption, the imports and exports of semimanufactured and manufactured products and their export balance (-) or import balance(+) amd the net domestic consumption for selected years, as drawn from the page 36 table.

MILLION POUNDS	1975	1976	1977	1978	1979	1980
MILL CONSUMPTION	10,617	11,587	12,191	12,410	12,645	11,983
IMPORTS	950	1,255	1,286	1,580	1,352	1,436
EXPORTS	695	779	748	809	1,089	1,318
IMPORT BALANCE	+255	+476	+538	+771	+263	+118
DOMESTIC CONS.	10,872	12,063	12,729	13,181	12,908	12,101

The table below shows the percentages of domestic consumption (at 100%) accounted for by mill consumption and by the imports, exports and net import of semimanufactured and manufactured goods for selected years. It will be noted that in 1980 man-made fibers again showed an export balance.

PERCENT		MILL CONS	IMP	EXP	NET IMP	DOM CONS
MAN-MADE FIBER	1975	99	+5	-4	+1	100
	1976	98	+6	-4	+2	100
	1977	98	+6	-4	+2	100
	1978	98	+7	-5	+2	100
	1979	101	+5	-6	-1	100
	1980	103	+6	-9	-3	100
COTTON	1975	95	+16	-11	+5	100
	1976	92	+19	-11	+8	100
	1977	91	+19	-10	+9	100
	1978	86	+24	-10	+14	100
	1979	92	+22	-14	+8	100
	1980	91	+24	-15	+9	100
WOOL	1975	82	+30	-12	+18	100
	1976	73	+34	-7	+27	100
	1977	64	+41	-5	+36	100
	1978	64	+41	-5	+36	100
	1979	67	+40	-7	+33	100
	1980	68	+44	-12	+32	100
TOTAL FIBERS ABOVE	1975	97	+9	-6	+3	100
	1976	96	+10	-6	+4	100
	1977	96	+10	-6	+4	100
	1978	94	+12	-6	+6	100
	1979	98	+10	-8	+2	100
	1980	99	+12	-11	+1	100

LOWEST IMPORT-EXPORT BALANCE SINCE 1964

The U.S. import balance of semimanufactures and manufactures for 1980, at 118.2 million pounds, was the lowest import balance in recent years. In fact, one has to go back to 1964, when the import balance was 76.4 million pounds, to find a lower import balance.

Last year's imports of semimanufactured and manufactured textile products, at 1,436.6 million pounds, were 84.9 million pounds, or 6½%, above the 1,351.7 million pounds imported during 1979. Exports of these products during 1980 were a record 1,318.4 million pounds, 21% above 1979 exports.

RECORD MAN-MADE FIBER EXPORT BALANCE

In 1980, imports of man-made fiber semimanufactures and manufactures were 540.6 million pounds, 3% above the 525.0 million pounds brought in the year before. Exports of these products, at 771.5 million pounds, were at a new record high level, 29% above the corresponding 1979 figure. Thus, for the second year in a row there was an **export balance.** For 1980, this export balance amounted to a record 230.9 million pounds, 222% above the 1979 export balance.

The imports and exports of man-made fiber yarn (except textile glass fiber), staple and waste are detailed in the upper section of the page 35 table.

In the case of cotton, 1980 imports of all types of semimanufactured and manufactured textile products were at a level of 810.9 million pounds. 1980 imports were 8½% above the 746.1 million pounds imported during 1979. Exports of cotton manufactures and semimanufactures increased 45.1 million pounds, or by 9½%, in 1980 to a record 523.1 million pounds from the 478.0 million pounds exported in 1979. However, the 1980 import balance of these cotton products increased 19.7 million pounds from the 1979 level of 268.1 million pounds to 287.8 million pounds.

Last year's imports of semimanufactured and manufactured wool products increased by 4.5 million pounds and exports increased by 9.8 million pounds, thereby yielding an import balance of 61.3 million pounds for 1980.

UTILITY POUNDAGE

The greater use of man-made fibers, with their high utility value per pound as compared with cotton and wool, has had the effect of reducing the overall per capita poundage series. Put another way, if all the products currently made of man-made fibers were produced from cotton or wool, larger poundages of fiber would be required.

Utility poundage takes into account (1) differences in processing losses between the various fibers, (2) differences in fabric weights or "covering power," (3) variations in the useful life of products made from individual fibers or blends thereof and (4) consumers' premature discarding of textile products because of appearance and/or style obsolescence.

FIBER AVAILABILITY PER CAPITA

The chart on page 45 and the table below show the availability per capita of man-made, cotton and wool fibers in the United States. The 1980 total of 53.3 pounds was 9% below the previous year's 58.7 pounds.

Availability of man-made fiber decreased to a level of 37.7 pounds per capita in 1980, or 5.0 pounds below the 42.7 pounds the year before. Cotton decreased by 0.3 pounds and wool by 0.1 pound.

The per capita series is obtained by dividing domestic consumption by the resident population each year.

AVERAGE ANNUAL FIBER AVAILABLE FOR CONSUMPTION - POUNDS

PERIOD[a]	POPULATION	PER CAPITA				PER CONSUMING UNIT TOTAL[b]
		MAN-MADE FIBER	COTTON	WOOL	TOTAL	
	(41)	(42)	(43)	(44)	(45)	(46)
1920-1924	110.2	0.2	23.8	4.0	28.0	34.2
1925-1929	118.9	0.7	26.0	3.6	30.3	36.8
1930-1934	124.9	1.4	20.5	2.6	24.5	29.5
1935-1939	129.1	2.7	24.9	3.4	31.0	37.0
1940-1944	135.1	4.7	35.1	4.5	44.3	52.7
1945-1949	144.2	6.6	28.0	4.8	39.4	47.2
1950-1954	157.6	9.0	26.9	3.8	39.7	48.5
1955-1959	171.9	10.3	23.7	3.0	37.0	45.9
1960-1964	186.4	12.9	22.6	3.0	38.5	48.2
1965-1969	198.6	22.9	23.0	2.5	48.4	60.4
1970-1974	208.1	35.4	19.0	1.2	55.6	67.6
1975-1979	212.5	40.2	15.9	0.9	57.0	68.3
1965	194.2	18.3	23.9	2.9	45.1	56.4
1966	196.5	20.2	25.1	2.7	48.0	60.0
1967	198.7	21.4	23.5	2.2	47.1	58.8
1968	200.7	26.7	21.9	2.4	51.0	63.5
1969	202.7	27.9	20.9	2.2	51.0	63.3
1970	204.9	27.8	19.7	1.7	49.2	60.7
1971	206.2	33.1	20.5	1.4	55.0	67.0
1972	208.2	37.8	20.0	1.4	59.2	71.8
1973	209.9	42.1	18.5	1.0	61.6	74.6
1974	211.4	36.3	16.2	0.7	53.2	64.1
1975	213.1	35.2	15.1	0.7	51.0	61.4
1976	214.7	38.1	17.2	0.9	56.2	67.4
1977	216.4	41.8	16.0	1.0	58.8	70.4
1978	218.2	43.2	16.2	1.0	60.4	72.1
1979	220.1	42.7	15.1	0.9	58.7	70.0
1980	227.1	37.7	14.8	0.8	53.3	66.3

a. Five-year averages for 1920-1979 and annual data for 1965-1980.

b. For meaning of "per consuming unit", see text opposite.

Column 41. U.S. population as of July first; 1950 forward data include Alaska and Hawaii. Puerto Rico is excluded.

Columns 42 to 45. Columns 31, 34, 37 and 40 respectively on page 36 herewith divided by column 41.

PER CAPITA AVAILABILITY OF APPAREL

The table below, from the February issue of the ORGANON, shows domestic shipments of man-made fibers by their major end use area; i.e., apparel, home furnishings and industrial.

	1976	1977	1978	1979	1980
Apparel	2959	3186	3165	3153	3193
Home Furnishings	2362	2693	2887	3034	2688
Industrial	1543	1645	1814	2038	1775
	6864	7524	7866	8225	7656

As can be seen from this table, shipments of man-made fibers to the apparel area increased in 1980, whereas shipments to the home furnishings and industrial areas declined. These declines were mainly attributable to drops in carpet & rug and tire & tire cord fabric shipments.

It is believed that similar trends held true for cotton and wool shipments. The table below details TEB estimates of the domestic apparel market (domestic production plus imports less exports) for 1979 and 1980.

ESTIMATED DOMESTIC APPAREL MARKET
MILLION POUNDS

	1979	1980
Domestic Production	5,005	5,060
Imports	825	885
Exports	158	323
Domestic Market	5,672	5,622
Per Capita (pounds)	25.8	24.8

It should also be noted that the 1980 population figures are based on the April first, 1980, Census count. It is possible that earlier years' population figures may be revised at a later date.

CONSUMPTION PER CONSUMING UNIT

Another concept of fiber consumption is the per-consuming-unit approach. This method arbitrarily assumes that the per capita use of fiber by the population of ages up to 17 years and of 65 years and older, is one-half that of the consuming-unit population of ages 17 to 64 years. Per-consuming-unit data are presented in the table opposite.

Notable changes in the population mix, especially since World War II, have tended to affect the growth in straight per capita fiber consumption which might otherwise have been expected. Thus, it will be seen that the difference between the per-consuming-unit and the per capita series increased from an average of 6.4 pounds per year during the 1920-1929 period to 8.9 pounds over the decade 1950-1959, 10.9 pounds average during 1960-1969 and to 11.7 pounds average in the ten years 1970-1979. In 1980 this difference was 13.0 pounds, up from 11.3 pounds in 1979.

MAN-MADE FIBER PRODUCERS' HANDBOOK SERVICE

The Textile Economics Bureau, Inc., is offering its Man-Made Fiber Producers' Handbook service to subscribers for an annual fee of $1,000 ($1,250 as of July first), payable in four quarterly installments.

The service consists of loose-leaf pages of U.S. man-made fiber data collected directly from U.S. producers. These data serve as the base from which the U.S. man-made fiber data published in the ORGANON are derived.

The pages are 8½" x 11", three-hole punched and ready for insertion in a binder, which is provided. The pages are updated monthly, quarterly, semiannually and/or annually.

Monthly data are issued about the 20th of each month, covering production, domestic shipments, exports and ending stock for acetate yarn, rayon staple and the major non-cellulosic fibers (acrylic, nylon, olefin and polyester). Nylon yarn shipments are broken down between industrial, carpet and textile types, and textile types are further divided as feed or producer-textured. Polyester yarn shipments are divided between industrial and textile types, with the latter further divided into seven denier classes and also between feed and producer-textured. Deliveries of acrylic+modacrylic, nylon and polyester staple+tow are divided between carpet and other types as well as by denier classes.

Quarterly data are issued from six to eight weeks following the end of each quarter for acetate yarn, rayon staple, the major non-cellulosic fibers and textile glass fiber. These data also cover production, shipments and stock, with shipments divided into the primary and secondary trades or end uses within the broad areas of apparel, home furnishings and industrial uses. The three sectors are also divided between woven, knit and other. Waste shipments are also handled on a quarterly basis.

Current and projected producing capacity for all types of man-made fibers are covered semiannually.

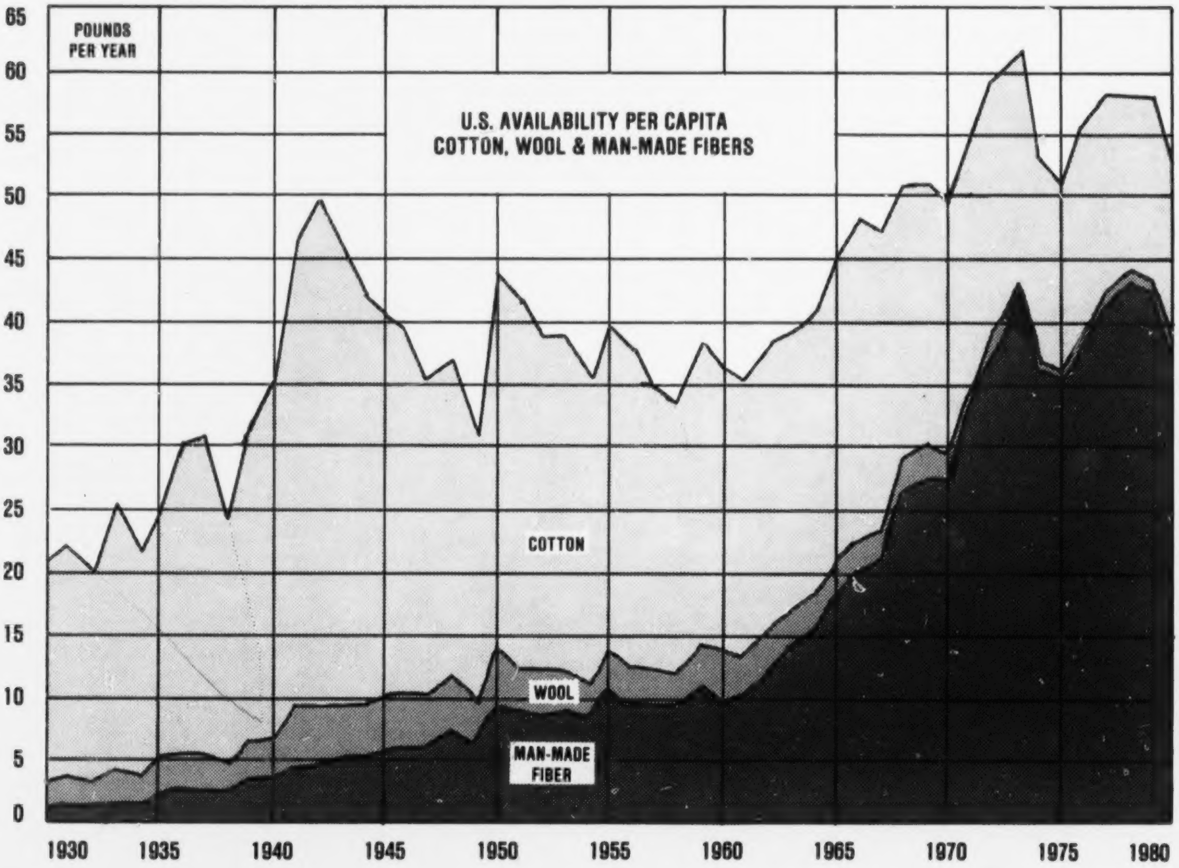
The annual pages summarize the aforementioned monthly and quarterly series, while also including data on rayon yarn, acetate staple and the smaller volume non-cellulosic fibers, such as saran, spandex and vinyon. The annual pages on secondary trade or end use go into considerably more detail than the quarterlies and include a page on shipments of man-made fiber waste by end use.

The service fee of $1,000 includes the new Handbook and the latest bound Base Book 1971-1975. Limited quantities of earlier Base Books are available for an additional fee.

For further information on the service, write or telephone Textile Economics Bureau, Inc., 489 Fifth Avenue, New York, NY 10017 (212) 661-5166.

RAW COTTON AND SILK DELIVERIES

The two tables on the lower half of page 45 detail monthly shipments of raw cotton and silk (in bales) for recent years. The monthly shipments of cotton (in bales) are not adjusted to the calendar month as are the monthly shipments in pounds. See page 40 herewith.



RAW COTTON CONSUMPTION

THOUSAND BALES

MONTH	1972	1973	1974	1975	1976	1977	1978	1979	1980
JAN	663	687	655	431	627	509	493	603	604
FEB	714	597	592	395	559	528	501	472	506
MAR	711	661	644	438	655	654	620	506	513
APR	620	632	610	462	596	507	484	584	622
MAY	721	637	633	501	579	507	484	484	496
JUN	678	604	546	494	610	616	575	489	478
JUL	518	504	535	485	489	395	383	503	487
AUG	646	636	562	531	550	494	459	472	442
SEP	631	543	489	548	556	606	569	482	456
OCT	652	649	529	629	554	835	482	630	597
NOV	650	620	432	604	527	504	595	482	458
DEC	575	509	390	624	531	562	435	436	475
TOTAL	7779	7279	6617	6142	6833	6717	6080	6143	6134

RAW SILK DELIVERIES

BALES

MONTH	1972*	1973	1974	1975	1976	1977	1978	1979	1980
JAN	233	556	124	190	925	352	321	501	312
FEB	184	355	305	188	469	239	394	302	644
MAR	308	450	233	410	689	242	424	687	422
APR	198	499	277	393	362	212	382	353	507
MAY	141	393	175	394	251	254	397	471	366
JUN	195	119	288	219	579	259	299	418	285
JUL	182	577	269	380	337	322	316	407	257
AUG	445	214	139	219	358	311	341	756	332
SEP	529	71	97	505	422	370	401	492	342
OCT	209	93	302	585	268	424	280	490	365
NOV	229	105	151	225	222	322	468	368	265
DEC	313	246	96	641	159	433	214	518	323
NET	3166	NA	NA	NA	NA	NA	NA	NA	NA
REEXP	715	NA	NA	NA	NA	NA	NA	NA	NA
GROSS	3881	3678	2456	4349	5041	3740	4237	5763	4420

*Monthly data exclude re-exports.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1980 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1981 JAN
RAYON+ACETATE														
YARN - SINGLES														
TEXTURED	310.0106 & .0206	132	39	80	437	0	77	43	36	–	19	0	49	1
OTHER	310.0130 & .0230[a]	625	675	485	548	785	648	534	584	570	707	744	475	1182
MONOFILAMENTS	309.0310 & .0610	0	0	0	0	0	0	0	0	0	0	0	0	1
STRIPS, $1/LB & UNDER	309.2000*	0	0	0	0	0	0	0	0	0	10	0	0	0
SUBTOTAL ABOVE		**757**	**714**	**565**	**985**	**785**	**725**	**577**	**620**	**570**	**736**	**744**	**524**	**1184**
STAPLE	309.4320 & .4325	440	190	800	596	260	408	1257	507	646	720	710	1464	1627
GROUPED FILAMENTS	309.3010 & .3110	279	146	264	183	311	213	0	156	171	288	156	141	239
SUBTOTAL ABOVE		**719**	**336**	**1064**	**779**	**571**	**621**	**1257**	**663**	**817**	**1008**	**866**	**1605**	**1866**
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	35	16	0	42	58	0	40	0	35	81	32	0	37
NON-CELLULOSIC FIBERS														
YARN - SINGLES														
TEXTURED - NYLON	310.0109 & .0209	44	80	1	71	42	178	78	142	1519	826	63	110	197
- POLYESTER	310.0110 & .0210	32	0	66	82	31	79	3	16	3	10	7	8	27
- OTHER	310.0114 & .0214	43	21	39	37	6	0	20	7	9	4	3	6	17
OTHER - NYLON	310.0149 & .0249	514	489	325	257	252	260	327	324	328	175	132	189	204
- POLYESTER	310.0150 & .0250	488	296	479	726	727	886	435	784	493	460	519	379	111
- OTHER	310.0170 & .0270[b]	134	117	141	168	91	169	67	82	92	54	203	99	170
MONOFILAMENTS	309.0200 & .0330[c]	497	287	639	507	357	429	273	300	176	222	144	207	145
STRIPS, OVER $1/LB	309.2100 & .2500*	16	17	25	32	35	11	20	12	21	12	20	8	21
SUBTOTAL ABOVE		**1768**	**1307**	**1715**	**1880**	**1541**	**2012**	**1223**	**1667**	**2641**	**1763**	**1091**	**1006**	**892**
STAPLE - NYLON	309.4338	94	67	126	190	194	83	130	101	155	180	122	256	525
- POLYESTER	309.4342	236	70	62	53	163	73	187	66	121	38	186	89	132
- ACRYLIC	309.4345	1333	945	1095	1732	1265	1279	1311	585	797	668	1716	570	1069
- OLEFIN	309.4346	--	3	3	0	13	41	13	46	24	1	0	0	5
- OTHER	309.4355	497	1644	1755	1123	1376	903	999	1008	1070	1650	1398	1151	469
GROUPED FILAMENTS														
NYLON	309.3030 & .3130	90	26	71	35	103	206	94	40	92	55	117	93	68
POLYESTER	309.3040 & .3140	0	0	25	30	40	22	0	--	0	--	11	1	0
ACRYLIC	309.3050 & .3150	558	346	299	341	224	87	52	60	82	237	200	122	181
OTHER	309.3065 & .3165	99	8	151	42	66	81	23	25	37	77	123	21	65
SUBTOTAL ABOVE		**2907**	**3109**	**3587**	**3546**	**3444**	**2775**	**2809**	**1931**	**2378**	**2906**	**3873**	**2303**	**2514**
WASTE, NOT ADVANCED - NYLON	309.6625	1533	1226	1299	733	1055	1056	900	711	472	903	1019	751	1598
- POLYESTER	309.6630	202	283	452	292	301	413	313	633	562	781	748	956	1071
- ACRYLIC	309.6645	156	67	247	315	195	239	223	124	209	233	141	209	289
- OTHER	309.6660	29	41	172	125	42	123	49	124	6	43	96	115	32
NOILS & GARNETTED FIBERS	309.6000 & .7000*	0	0	0	2	0	0	2	0	0	0	0	0	0
OTHER WASTE, ADVANCED	309.7525 - .7555	20	58	24	108	51	72	94	5	3	33	94	63	119
TOTAL MAN-MADE ABOVE		**8126**	**7157**	**9125**	**8607**	**8043**	**8036**	**7487**	**6478**	**7693**	**8487**	**8704**	**7532**	**9602**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD														
YARN - PLIED														
TEXTURED - CELLULOSIC	310.1106	0	0	0	0	0	0	0	0	0	0	0	0	0
- NON-CELLULOSIC	310.1015[d] & .1109[e]	85	104	75	91	222	97	84	24	16	77	279	224	268
OTHER - CELLULOSIC	310.1030 & .1135[f]	14	21	12	27	18	5	0	0	0	0	0	0	16
- NON-CELLULOSIC	310.1050 & .1070[g]	36	14	56	63	49	63	26	23	15	11	25	8	20
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	102	101	116	16	66	30	18	16	27	16	0	0	10
- OTHER	310.4015 & .4027[i]	2162	2000	2238	1703	1830	1842	1052	1226	1145	1429	1299	1461	1762
OTHER YARNS - NES, INCL. CHENILLE	310.6029 - .8000	125	177	249	216	236	356	212	154	132	91	183	189	352
HANDWORK YARNS & SEWING THREAD	310.9000 - .9140	245	191	263	198	152	146	125	194	185	160	213	188	247
SLIVER, TOPS & ROVING	309.9000	274	111	261	158	355	349	465	151	360	2	74	148	388
TEXTILE GLASS FIBER	309.2800 & .2900[j]	712	689	603	895	428	717	499	495	625	311	774	602	1156
GRAND TOTAL ABOVE		**11881**	**10565**	**12998**	**12174**	**11399**	**11641**	**9968**	**8761**	**10198**	**10584**	**11551**	**10352**	**13821**

SOURCE: U.S.Census Bureau.

NES - Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & .0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1110 & .1114.

f. Also includes 310.2010 & .2110.

g. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Chiefly roving. Also includes 309.9800 & .9900.

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEM	1980 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1981 JAN
RAYON+ACETATE YARN, MONOFIL & STRIPS													
CANADA	83	33	1	51	33	29	36	36	280	112	72	27	318
MEXICO	154	116	185	109	148	146	80	163	86	41	121	209	161
WEST GERMANY	159	122	97	129	32	102	51	51	58	67	134	112	242
NETHERLANDS	34	34	29	84	318	228	162	248	17	394	417	86	236
UNITED KINGDOM	140	153	213	562	108	163	151	57	30	29	0	19	1
JAPAN	143	91	0	50	146	57	57	25	36	33	0	20	64
ALL OTHER COUNTRIES[a]	44	165	40	0	0	0	40	40	63	60	0	51	162
TOTAL R+A YARN	**757**	**714**	**565**	**985**	**785**	**725**	**577**	**620**	**570**	**736**	**744**	**524**	**1184**
RAYON+ACETATE STAPLE+TOW													
CANADA	68	131	130	61	115	142	87	92	259	444	524	899	469
AUSTRIA	20	0	110	80	88	55	213	188	301	20	148	120	731
WEST GERMANY	18	--	38	23	7	20	0	19	5	85	0	0	0
SWEDEN	321	41	476	410	0	0	897	228	0	182	92	275	332
UNITED KINGDOM	202	133	107	160	341	192	0	108	0	218	37	113	226
JAPAN	87	29	198	45	0	135	60	28	207	59	59	178	90
ALL OTHER COUNTRIES[b]	3	2	5	0	20	77	--	0	45	0	6	20	18
TOTAL R+A STAPLE	**719**	**336**	**1064**	**779**	**571**	**621**	**1257**	**663**	**817**	**1008**	**866**	**1605**	**1866**
NON-CELLULOSIC YARN, MONOFIL & STRIPS													
ARGENTINA	43	43	57	43	36	89	0	0	0	0	0	0	0
CANADA	42	102	57	196	59	261	59	2	1441	600	54	43	50
BELGIUM	1	24	--	4	3	1	0	0	0	0	1	0	--
FRANCE	1	14	65	65	69	125	8	85	160	71	67	49	94
WEST GERMANY	308	265	311	395	275	351	135	95	136	290	285	192	256
IRELAND	72	6	8	44	7	1	2	2	2	1	--	--	--
ITALY	23	0	6	9	5	12	14	36	11	65	36	41	52
NETHERLANDS	24	1	12	12	12	61	0	0	--	0	36	1	0
UNITED KINGDOM	20	46	10	10	44	13	120	197	138	3	9	48	57
JAPAN	1202	782	1185	1094	1030	1052	872	1195	682	701	589	608	300
TAIWAN	0	13	0	0	0	32	5	32	0	0	0	0	0
ALL OTHER COUNTRIES[c]	32	11	4	8	1	14	8	23	71	32	14	24	83
TOTAL N.C. YARN	**1768**	**1307**	**1715**	**1880**	**1541**	**2012**	**1223**	**1667**	**2641**	**1763**	**1091**	**1006**	**892**
NON-CELLULOSIC STAPLE+TOW													
CANADA	176	225	418	479	274	40	40	88	111	145	196	268	328
WEST GERMANY	1158	793	719	1065	988	990	963	334	622	650	1426	535	541
ITALY	99	17	134	157	165	221	97	80	51	45	66	104	7
ROMANIA	201	25	19	0	30	47	132	25	0	0	80	0	0
UNITED KINGDOM	400	276	110	294	223	183	78	131	78	108	325	87	208
JAPAN	694	300	620	706	599	459	602	296	576	384	451	326	828
TAIWAN	162	1458	1491	778	1138	832	884	974	914	1556	1313	940	324
ALL OTHER COUNTRIES[d]	17	15	76	67	27	3	13	3	26	18	16	43	278
TOTAL N.C. STAPLE	**2007**	**3109**	**3587**	**3546**	**3444**	**2775**	**2809**	**1931**	**2378**	**2906**	**3873**	**2303**	**2514**

Other countries supplying 1981 poundages are:

a. Austria 19, South Korea 1 & Spain 142.

b. France 18.

c. South Korea 5, Mexico 14, Spain 61, Sweden 2 & Switzerland 1.

d. France 44, Mexico 190 & Poland 44.

15

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1981						YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	1981	1980
	TOTAL SHIPMENTS[b]							
MAN-MADE FIBER DATA[c]								
YARN+MONOFILAMENTS[d]								
ACETATE	20.9	21.5					42.4	54.8
NYLON[e] - INDUSTRIAL[f]	34.2	34.4					68.6	83.1
- LOW DENIER INDUSTRIAL[g]	3.0	3.0					6.0	6.2
- CARPET	67.1	63.8					130.9	128.2
- TEXTILE	33.7	36.6					70.3	78.8
POLYESTER - INDUSTRIAL[f]	25.9	24.7					50.6	56.2
- LOW DENIER INDUSTRIAL[g]	2.1	2.1					4.2	5.2
- TEXTILE	94.8	96.0					190.8	203.5
OLEFIN[h]	53.9	53.8					107.7	109.6
TOTAL NON-CELLULOSIC ABOVE[i]	**314.7**	**314.4**					**629.1**	**670.8**
STAPLE+TOW+FIBERFILL[j]								
RAYON	40.9	35.4					76.3	84.3
NYLON[e]	70.7	67.5					138.2	129.8
ACRYLIC+MODACRYLIC	59.3	62.2					121.5	139.3
POLYESTER	208.6	211.1					419.7	446.5
OLEFIN+VINYON	10.8	10.3					21.1	19.6
TOTAL NON-CELLULOSIC ABOVE	**349.4**	**351.1**					**700.5**	**735.2**
	END-OF-MONTH STOCK							
YARN+MONOFILAMENTS								
ACETATE	17.0	15.4					15.4	11.9
NYLON[e] - INDUSTRIAL[f]	37.5	37.9					37.9	39.7
- LOW DENIER INDUSTRIAL[g]	3.9	3.2					3.2	4.2
- CARPET	37.7	38.2					38.2	61.7
- TEXTILE	42.8	43.1					43.1	60.2
POLYESTER - INDUSTRIAL[f]	23.7	23.1					23.1	31.6
- LOW DENIER INDUSTRIAL[g]	3.6	3.4					3.4	2.8
- TEXTILE	100.2	104.1					104.1	120.9
OLEFIN[h]	63.9	62.3					62.3	69.8
TOTAL NON-CELLULOSIC ABOVE[i]	**313.3**	**315.3**					**315.3**	**390.9**
STAPLE+TOW+FIBERFILL								
RAYON	24.2	25.1					25.1	38.2
NYLON[e]	33.3	37.4					37.4	75.1
ACRYLIC+MODACRYLIC	76.5	76.3					76.3	60.4
POLYESTER	174.2	182.3					182.3	177.2
OLEFIN+VINYON	16.6	16.9					16.9	21.1
TOTAL NON-CELLULOSIC ABOVE	**300.6**	**312.9**					**312.9**	**333.8**
WOOL & COTTON CONSUMPTION								
APPAREL CLASS WOOL	10.3						10.3	11.6
CARPET CLASS WOOL	0.7						0.7	0.9
TOTAL RAW WOOL	11.0						11.0	12.5
RAW COTTON	217.4	254.2					471.6	523.3

a. Year totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February 1981 issue for annual data.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February 1981 issue for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 21 of the February 1981 issue for annual data.

5/20/81

C 8850-1

Textile ORGANON

FEATURING MAN-MADE FIBERS

VOL. LII • NO. 4

APRIL
1981

MONTHLY REVIEW

U.S. EXPORTS OF MAN-MADE FIBERS & MANUFACTURES (EXCEPT TEXTILE GLASS) LAST YEAR TOTALED A RECORD HIGH 2,079,313,000 POUNDS, 14% MORE THAN THE 1979 LEVEL OF 1,830,331,000 POUNDS.

IMPORTS TOTALED 636,319,000 POUNDS. THE RESULTING 1980 ***EXPORT BALANCE*** OF 1,442,994,000 POUNDS WAS THE HIGHEST IN HISTORY. PG 58

IMPORT DATA BY COUNTRY OF ORIGIN AND EXPORT DATA BY COUNTRY OF DESTINATION ARE PRESENTED. PGS 54&56

March deliveries of non-cellulosic fiber (except saran and spandex) totaled 692.6 million pounds, 4% above the previous month's 665.1 million. January-March 1981 shipments of 2,021.7 million pounds were 3% less than the 2,089.0 million pounds shipped during the corresponding 1980 period.

Last month's deliveries of non-cellulosic yarn+monofilaments (except saran and spandex) were at a level of 341.2 million pounds, 8½% more than the 314.0 million pounds shipped in February and the highest since December of last year. January-March shipments of 969.8 million pounds this year were 4½ below those of the corresponding 1980 period.

March deliveries of non-cellulosic staple+tow+fiberfill totaled 351.4 million pounds compared with February shipments of 351.1 million pounds. Deliveries of all non-cellulosic staple+tow+fiberfill totaled 1,051.9 million pounds during the first quarter of this year or 2% less than the corresponding 1980 deliveries.

March shipments of non-cellulosic yarn+monofilaments exceeded production by 23.6 million pounds. Thus producers' stocks decreased by the same amount to 291.7 million pounds on March 31st. Last month's output of non-cellulosic staple+tow+fiberfill exceeded shipments by 5.2 million pounds. Thus producers' stocks rose by the same amount to 318.1 million pounds as of the end of the month.

Shipments of acetate yarn totaled 21.5 million pounds in March, virtually unchanged from February. January-March deliveries of 64.0 million pounds this year were 21% less than those of the corresponding 1980 period.

Last month's output of acetate yarn exceeded shipments by 0.4 million pounds. Thus producers' stock increased by the same amount to 15.8 million pounds on March 31st.

Deliveries of rayon staple+tow in March totaled 37.9 million pounds, 7% more than the 35.4 million pounds shipped during February but 14% below March 1980 shipments. January-March shipments of 114.2 million pounds were 11% below those of the same 1980 period.

Last month's output of rayon staple+tow exceeded shipments by 4.2 million pounds. Thus producers' stock increased by the same amount to 29.3 million pounds at March end.

T.E.B. TO MOVE TO NJ

The Textile Economics Bureau, Inc., which has been located in New York since its founding in 1935, will be moving to New Jersey in the near future.

While plans are incomplete at this time, they call for a move to 101 Eisenhower Parkway, Roseland, NJ 07068. The building is located at the intersection of Eisenhower Parkway and Interstate 280.

IMPORT-EXPORT REVIEW

The principal data sources for this annual article and accompanying tables on U.S. exports and imports of the man-made fibers and products are the U.S. Census Bureau and the Department of Agriculture.

Import data are given on pages 52, 53, 58 and 61, while the details of country of origin for selected fiber imports are on pages 51, 53 and 54. Additional country-of-origin details on certain man-made fiber imports were given on page 28 of the recent February issue.

Export data are covered on pages 55 and 58, together with the detail of certain export items by country of destination on pages 56 and 57.

EXPORTS, IMPORTS & BALANCE

U.S. exports of man-made fibers and products during 1980 totaled 2,079,313,000 pounds, a new record high, or 14% more than the 1,830,331,000 pounds sent abroad in 1979.

The 1980 imports of man-made fibers and manufactures totaled 636,319,000 pounds, as compared with the 636,025,000 pounds brought in the previous year. Reference may be made to the page 58 table.

As is customary in these annual export-import reviews, the foreign trade data of the Census Bureau, which may be reported in units other than pounds (dollars, dozens, yards, etc.), have been converted to their poundage equivalents so as to afford a single, overall annual figure showing the balance of trade. Data of the Department of Agriculture are used for this purpose.

As shown on page 58, the 1980 ***export*** balance was 1,442,994,000 pounds, which compares with the previous high of 1,194,306,000 pounds set in 1979. Thus a net U.S. export balance was obtained for the eighth consecutive year, following seven consecutive years of import balances.

The export, import and balance data of the page 58 table cover the cellulosic and non-cellulosic man-made fibers only; textile glass fiber is excluded.

THE IMPORT SITUATION

The principal man-made fiber items imported into the United States prior to 1969 were in the form of raw materials, i.e., filament yarn, staple, etc. Since 1969, imports of man-made fiber semi-manufactures and manufactures have exceeded these raw material items on a poundage basis except for 1971, when they

(Continued on page 53)

CONTENTS

Monthly Review 49
  Imports for Consumption 63
  Imports by Country of Origin 63
1980 Import-Export Review 50
  Imports, Exports & Balance 50 & 58
  The Import Situation 50
  U.S. Imports of Apparel 53
  Imports by Country of Origin 54
  Exports by Destination 56-57
  The Export Picture 60
Estimated U.S. Apparel Market 60
Selected U.S. Textile Fiber Data 64

Textile ORGANON

CHARLES A. WHITEHEAD, *EDITOR*
MICHAEL R. KEMP, *ASSOCIATE EDITOR*
DOROTHY A. DRISCOLL, *CIRCULATION MGR.*
PUBLISHED BY
TEXTILE ECONOMICS BUREAU, INC.
489 FIFTH AVE., NEW YORK, N. Y. 10017

An arrangement of authentic market data, especially important to the United States Man-Made Fiber Industry, published monthly in the interest of good business.

Copyright 1981 by Textile Economics Bureau, Inc. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription rates as of January 1979 (payable in U.S. dollars or equivalent, with order):

	U.S.A.	OTHER
Annually	$100.00	$150.00
Single Issues		
June	10.00	15.00
November	10.00	15.00
All Others	8.00	12.00

All U.S. issues will be sent by first class mail and those to all other countries by airmail.

SELECTED U.S. MAN-MADE FIBER & MANUFACTURES IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

IMPORTS OF MAN-MADE BROAD WOVEN FABRICS

COUNTRY	1976	1977	1978	1979	1980
AUSTRIA	165	174	191	178	153
BELGIUM	3681	2902	1497	813	550
FRANCE	2022	2812	3364	3067	2565
GERMANY, FEDERAL REP. OF	1534	1498	1751	1465	1309
HUNGARY	0	--	5	233	124
IRELAND	64	101	33	14	129
ITALY	4584	9554	24936	25615	27379
NETHERLANDS	180	139	211	170	127
POLAND	211	272	237	410	120
PORTUGAL	102	166	458	496	137
ROMANIA	96	614	303	241	47
SPAIN	1315	1033	809	437	156
SWEDEN	147	106	218	379	368
SWITZERLAND	639	848	1083	899	962
UNITED KINGDOM	1475	1234	2070	1168	587
YUGOSLAVIA	58	469	357	379	363
OTHER EUROPE	20	22	44	79	92
TOTAL EUROPE ABOVE	**16293**	**21944**	**37567**	**36043**	**35168**
CHINA, PEOPLE'S REP. OF	3	4	3	46	238
HONG KONG	313	61	250	928	140
INDIA	772	836	640	269	312
JAPAN	40070	38399	40285	23796	23070
KOREA, REPUBLIC OF	3476	2762	4131	3625	9160
MALAYSIA	11	321	101	165	425
SINGAPORE	7	15	119	518	69
TAIWAN	302	351	524	392	783
THAILAND	723	529	471	390	72
BRAZIL	278	531	602	727	832
CANADA	608	1883	2015	1423	1824
ALL OTHER	164	286	319	423	44
TOTAL EXCLUDING EUROPE	**46727**	**45978**	**49460**	**32702**	**36969**
GRAND TOTAL	**63020**	**67922**	**87027**	**68745**	**72137**

IMPORTS OF MAN-MADE KNIT FABRIC IN THE PIECE

COUNTRY	1976	1977	1978	1979	1980
BELGIUM	13	14	10	7	10
FRANCE	104	150	159	160	149
GERMANY, FEDERAL REP. OF	244	269	408	522	417
IRELAND	1545	1101	1199	97	1
ITALY	789	450	397	263	182
NETHERLANDS	4	6	10	4	1
SPAIN	1	3	19	21	40
SWEDEN	1	2	5	17	47
SWITZERLAND	24	38	21	22	7
UNITED KINGDOM	461	414	387	302	94
OTHER EUROPE	2	17	20	36	8
TOTAL EUROPE ABOVE	**3188**	**2464**	**2635**	**1476**	**956**
HONG KONG	69	74	85	87	8
ISRAEL	60	--	0	10	2
JAPAN	5309	5193	4546	2060	1412
KOREA, REPUBLIC OF	12	228	79	1	2
SINGAPORE	117	119	7	0	0
TAIWAN	108	26	42	17	54
BRAZIL	48	6	--	0	5
CANADA	232	78	274	53	118
MEXICO	4	2	1	4	38
ALL OTHER	14	6	2	1	1
TOTAL EXCLUDING EUROPE	**5973**	**5732**	**5036**	**2233**	**1640**
GRAND TOTAL	**9161**	**8196**	**7671**	**3709**	**2596**

IMPORTS OF MAN-MADE FIBERS

COUNTRY	1976	1977	1978	1979	1980
AUSTRIA	30278	28035	12518	5623	1438
BELGIUM	963	7041	1816	507	52
CZECHOSLOVAKIA	22	0	325	0	0
DENMARK	21	58	44	2	2
FINLAND	1003	2601	5286	366	130
FRANCE	15282	22924	17854	2631	1477
GERMAN DEMOCRATIC REP.	6	277	270	0	0
GERMANY, FEDERAL REP. OF	42522	39204	31599	20315	17649
GREECE	0	160	524	90	30
IRELAND	3514	232	1057	544	182
ITALY	25941	23035	17568	5617	2168
MALTA	0	0	95	102	105
NETHERLANDS	14604	13480	12509	2186	2955
POLAND	1018	649	404	120	65
PORTUGAL	31	17	14	488	168
ROMANIA	7377	3193	5132	3534	1810
SPAIN	1132	1088	3528	724	240
SWEDEN	776	4729	9100	5611	2963
SWITZERLAND	1932	5128	1211	295	438
UNITED KINGDOM	20814	20310	30390	21156	11886
YUGOSLAVIA	205	183	0	22	44
TOTAL EUROPE ABOVE	**167441**	**172344**	**151664**	**69933**	**43802**
AUSTRALIA	1051	481	10	177	488
HONG KONG	270	155	35	75	15
INDIA	148	284	6	63	83
IRAN	0	0	2842	282	0
ISRAEL	796	1581	867	1279	1373
JAPAN	53685	77912	66110	34054	27641
KOREA, REPUBLIC OF	1100	266	1453	1411	767
MALAYSIA	0	61	54	1108	369
NEW ZEALAND	13	0	0	19	121
PHILIPPINES	1323	1726	1582	1064	2456
SINGAPORE	240	879	1010	648	961
SOUTH AFRICA	943	1813	3474	1716	1880
TAIWAN	5569	12780	14090	12810	14076
THAILAND	0	0	0	125	603
ARGENTINA	0	1	0	58	311
BRAZIL	914	522	1270	380	28
CANADA	19529	26629	24611	16219	22868
COSTA RICA	0	0	164	37	5
MEXICO	3153	3505	3817	2631	5490
PERU	526	226	197	85	0
VENEZUELA	834	1168	244	487	1295
ALL OTHER	631	76	11	152	152
TOTAL OTHER ABOVE	**90725**	**130065**	**121847**	**74880**	**80982**
TOTAL ABOVE	**258166**	**302409**	**273511**	**144813**	**124784**
PRODUCTS NOT DETAILED	5720	8696	11913	12762	7288
GRAND TOTAL	**263886**	**311105**	**285424**	**157575**	**132072**

The three section totals on this page agree with the corresponding data on pages 52 and 53 herewith.

The by-country data in the "Imports of Man-Made Fiber" table above include singles, monofilaments & strips (see page 28 of the February 1981 and the corresponding pages of earlier February ORGANON issues), plied filament yarn, staple, grouped filaments, waste, spun yarns and textile glass fiber. The "products not detailed" in the above table comprise handwork yarns & sewing thread, other yarns - NES and sliver, tops & roving.

NOTE: Imports of man-made fiber apparel by country of origin are shown on page 53.

3

U.S. IMPORTS OF MAN-MADE FIBERS

ITEM	COMMODITY NUMBER AS OF 1/1/78	THOUSAND POUNDS					THOUSAND DOLLARS				
		1976	1977	1978	1979	1980	1976	1977	1978	1979	1980
RAYON+ACETATE											
YARN - SINGLES		INCL. IN OTHER					INCL. IN OTHER				
TEXTURED	310.0106 & .0206	TEXTURED BELOW		1747	2695	912	TEXTURED BELOW		2105	3903	1668
OTHER	310.0130 & .0230[a]	24994	23388	23925	10495	7380	26969	23248	25268	13111	12222
MONOFILAMENTS	309.0310 & .0610	NA	NA	3	--	0	NA	NA	10	1	0
STRIPS, $1/LB & UNDER	309.2000*	62	72	54	81	10	39	36	28	52	16
SUBTOTAL ABOVE		**25056**	**23460**	**25729**	**13271**	**8302**	**27008**	**23284**	**27411**	**17067**	**13906**
STAPLE	309.4320 & .4325	41524	54054	37840	13949	7998	17763	24000	17382	3042	5653
GROUPED FILAMENTS	309.3010 & .3110	1663	3751	3285	2580	2308	858	1804	1793	3677	5023
SUBTOTAL ABOVE		**43187**	**57805**	**41125**	**16529**	**10306**	**18621**	**25804**	**19175**	**11719**	**10676**
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	370	579	391	803	339	72	133	118	314	146
NON-CELLULOSIC FIBERS											
YARN - SINGLES											
TEXTURED - NYLON	310.0109 & .0209	14058	14009	4625	953	3154	15739	16908	5167	1128	4089
- POLYESTER	310.0110 & .0210	8419	26116	6068	1083	337	9744	23931	6405	1589	780
- OTHER	310.0114 & .0214	5127	1092	657	153	195	6842	1649	787	360	373
OTHER - NYLON	310.0149 & .0249	22042	34178	24993	6105	3572	21297	31339	24736	8310	5687
- POLYESTER	310.0150 & .0250	6552	12698	12740	7579	6672	6631	11122	13895	10230	9906
- OTHER	310.0170 & .0270[b]	6219	2898	1252	1346	1417	7079	3459	2150	2545	3149
MONOFILAMENTS	309.0200 & .0330[c]	1451	1274	1554	2365	4036	3396	2728	4415	6967	10243
STRIPS, OVER $1/LB	309.2100 & .2500*	158	238	319	420	229	1480	2396	2861	3267	2427
SUBTOTAL ABOVE		**84026**	**92503**	**52208**	**20004**	**19614**	**72208**	**93532**	**60416**	**34396**	**38654**
STAPLE - NYLON	309.4338	12300	8206	6306	2364	1698	8001	5457	4794	2455	2365
- POLYESTER	309.4342	12634	4240	7695	3087	1344	5799	1911	4082	2020	1184
- ACRYLIC	309.4345	16518	16134	18185	13047	13296	8287	8720	10874	9925	11509
- OLEFIN	309.4346	} 17836	21518	46	57	144	} 9205	11840	44	54	146
- OTHER	309.4355			21241	15766	14574			12111	8998	9779
GROUPED FILAMENTS											
NYLON	309.3030 & .3130	2302	806	1025	719	1022	2157	907	1213	924	1364
POLYESTER	309.3040 & .3140	2548	924	529	44	129	2078	1106	600	36	137
ACRYLIC	309.3050 & .3150	} 3201	1105	3607	2910	2608	} 3744	1653	3515	3694	4331
OTHER	309.3065 & .3165			1852	1325	753			1606	1348	1126
SUBTOTAL ABOVE		**67339**	**52933**	**60486**	**39319**	**35568**	**39271**	**31594**	**38830**	**29454**	**31941**
WASTE, NOT ADVANCED - NYLON	309.6625	16877	12983	14623	12843	11658	3172	2413	2778	2811	2899
- POLYESTER	309.6630	3716	2509	5344	3333	5936	400	295	519	470	1004
- ACRYLIC	309.6645	5512	3582	3328	2395	2358	1127	847	863	587	726
- OTHER	309.6660	3304	3201	1497	1568	965	705	789	357	461	305
NOILS & GARNETTED FIBERS	309.6000 & .7000*	30	20	14	3	4	10	16	4	6	3
OTHER WASTE, ADVANCED	309.7525 - .7555	1078	879	1170	984	625	398	408	339	313	360
TOTAL MAN-MADE FIBER ABOVE		**230495**	**250454**	**205915**	**111052**	**95675**	**162992**	**179115**	**150819**	**97598**	**98620**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD											
YARN - PLIED											
TEXTURED - CELLULOSIC	310.1106	NA	NA	26	2	0	NA	NA	78	16	0
- NON-CELLULOSIC	310.1015[d] & .1109[e]	2453	2619	3454	2196	1378	3424	3306	4323	2955	2141
OTHER - CELLULOSIC	310.1030 & .1135[f]	941	562	300	25	97	1032	877	349	56	334
- NON-CELLULOSIC	310.1050 & .1070[g]	361	203	366	300	389	588	362	934	949	1347
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	490	1021	937	585	508	745	1313	1565	1126	1225
- OTHER	310.4015 & .4027[i]	9114	25575	40669	20300	19387	10517	31274	52789	30821	33114
OTHER YARNS - NES, INCL. CHENILLE	310.6029 - .8000	525	725	2127	3748	2320	1480	1861	4951	11607	8196
HANDWORK YARNS & SEWING THREAD	310.9000 - .9140	2437	3320	2464	2561	2260	6419	8174	7493	8347	7793
SLIVER, TOPS & ROVING	309.9000	2758	4651	7322	6453	2708	1278	2842	3758	3584	2034
TEXTILE GLASS FIBER	309.2800 & .2900[j]	14312	21975	21844	10353	7350	4690	8302	10413	6124	6453
GRAND TOTAL ABOVE		**263886**	**311105**	**285424**	**157575**	**132072**	**193165**	**237426**	**237472**	**163183**	**161257**

SOURCE: U.S.Census Bureau.

NES - Not elsewhere specified.

NA - Not available.

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & .0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1110 & .1114.

f. Also includes 310.2010 & .2110.

g. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Chiefly roving. Also includes 309.9800 & .9900.

4

U.S. IMPORTS OF SELECTED MAN-MADE FIBER MANUFACTURES

ITEM	COMMODITY NUMBER AS OF 1/1/78	THOUSAND POUNDS					THOUSAND DOLLARS				
		1976	1977	1978	1979	1980	1976	1977	1978	1979	1980
KNIT FABRIC IN THE PIECE											
RAYON & ACETATE		259	391	156	311	176	1272	1786	862	1557	1106
ACRYLIC	345.5011 - .5077	307	298	168	80	147	1385	1459	886	530	970
NYLON	INCLUSIVE	1472	940	775	455	316	6739	3747	4174	2469	1844
POLYESTER		6589	6201	5657	2315	1548	23600	20637	22816	11029	7714
OTHER MAN-MADE FIBER		534	366	915	548	409	2655	1531	4212	3473	2264
TOTAL KNIT FABRICS		**9161**	**8196**	**7671**	**3709**	**2596**	**35651**	**29160**	**32950**	**19058**	**13898**
BROAD WOVEN FABRICS											
MAN-MADE FIBER FABRICS CONTAINING MORE THAN 17% WOOL	338.1000 - .1580										
RAYON & ACETATE		7408	14660	278	12	42	35032	61822	982	50	394
NYLON				81	151	140			694	1392	1401
POLYESTER				16493	16190	16389			63351	63224	71725
OTHER MAN-MADE FIBER				11024	10386	12907			29905	32310	47892
OTHER WOVEN FABRICS IN THE PIECE EXCEPT PILE FABRICS	338.2500 - .3098 INCLUSIVE										
ACETATE		640	372	705	353	333	2556	3037	5403	4115	4043
RAYON - 100% FILAMENT YARN		3269	3341	3221	2236	2397	10917	10801	14958	14228	15620
- OTHER MAINLY 100% YARN		1063	926	1241	1905	2366	4458	4822	7304	12074	15750
NYLON		4301	3543	3854	2468	1233	15745	10688	13006	11920	7619
POLYESTER		36836	33743	40802	28475	30424	159320	159481	237747	200488	212348
ACRYLIC		1125	1768	1445	616	608	4259	6585	6060	3348	3644
TEXTILE GLASS FIBER		507	1033	1489	2055	1909	804	1443	2526	4045	4102
OTHER MAN-MADE FIBER		1984	1903	2559	1169	1386	8453	7628	9672	6212	7389
VELVETS - NOT WOVEN	346.6010 - .6065	5655	3989	2127	1397	951	17263	14702	7251	5591	4359
OTHER PILE FABRICS				1611	1235	1006			9782	8990	7718
TIRE FABRIC	357.8060	232	2644	97	97	46	189	3714	118	220	94
TOTAL BROAD WOVEN FABRICS		**63020**	**67922**	**87027**	**68745**	**72137**	**258996**	**284723**	**408759**	**368207**	**404098**

U.S.GENERAL IMPORTS OF MAN-MADE FIBER APPAREL

MILLIONS OF EQUIVALENT SQUARE YARDS

COUNTRY	1976	1977	1978	1979	1980
CHINA, PEOPLES' REPUBLIC	3	5	13	37	47
HONG KONG	214	192	249	210	207
ISRAEL	11	11	15	10	9
JAPAN	129	115	110	52	44
KOREA, REPUBLIC OF	453	399	417	377	449
MACAO	9	10	20	25	17
PHILIPPINES	97	99	116	112	126
SINGAPORE	53	28	57	49	39
TAIWAN	460	493	549	480	596
THAILAND	29	15	34	29	22
OTHER A, A & O	2	2	10	15	15
TOTAL A, A & O	**1460**	**1369**	**1590**	**1396**	**1571**
BARBADOS	4	5	6	5	6
BELIZE	8	8	4	3	5
COLOMBIA	7	6	7	7	5
COSTA RICA	13	10	12	15	17
DOMINICAN REPUBLIC	8	15	26	34	34
EL SALVADOR	11	11	12	11	2
HAITI	37	34	45	47	49
JAMAICA	3	3	2	3	4
MEXICO	72	72	79	68	72
OTHER AMERICAS	10	10	13	13	24
TOTAL AMERICAS	**173**	**174**	**206**	**206**	**218**
FRANCE	6	4	4	6	2
ITALY	22	26	26	15	9
UNITED KINGDOM	2	2	3	3	1
SPAIN	4	3	3	2	1
POLAND	5	13	14	9	5
ROMANIA	8	12	12	10	6
OTHER EUROPE	7	5	8	8	2
TOTAL EUROPE	**54**	**65**	**70**	**53**	**26**
GRAND TOTAL	**1687**	**1608**	**1866**	**1655**	**1815**

(Continued from page 50)

were about equal.

The poundage of man-made fiber yarn, monofilaments, staple, tow and waste brought into this country last year totaled 95,675,000, which was 14% less than the 111,052,000 pounds brought in the previous year. Imports of non-cellulosic fibers totaled 76,728,000 pounds or 4½% less than the 80,449,000 pounds of 1979. Rayon+acetate imports at 18,947,000 pounds fell by 38% from 30,603,000 pounds.

Imports of man-made fiber apparel increased by 18,913,000 pounds, or 5½%, last year. The 1980 total of 378,521,000 pounds represented about 59% of all imports of man-made fiber & manufactures.

A summary of these total imports for consumption is given on page 58.

U.S. IMPORTS OF APPAREL

The table opposite shows U.S. general imports of man-made fiber apparel in millions of equivalent square yards of fabric.

Asia continues to dominate the apparel import picture for man-made fibers, with 87% of the 1980 total having come from that region. The Americas accounted

(Continued on page 55)

SOURCE: U.S. CENSUS BUREAU REPORT TQ 2310. Data for each country represent the total groupings 630 through 659.

6

SELECTED U.S. MAN-MADE FIBER IMPORTS BY COUNTRY OF ORIGIN[a]

THOUSAND POUNDS

COUNTRY	STAPLE + TOW																									
	A. NON-CELLULOSIC								B. NON-CELLULOSIC YARN-SINGLES						C. WASTE				D. SPUN YARNS				E. TEXTILE GLASS	
	NYLON		POLYESTER		ACRYLIC		OTHER		NYLON		POLYESTER		OTHER		RAYON		NON-CELLULOSIC		RAYON		NON-CELLULOSIC			
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
BELGIUM/LUX.	--	0	0	2	76	1	0	2	--	0	214	10	1	25	0	0	169	0	0	0	4	3	0	0
FINLAND	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114	128	0	0
FRANCE	69	26	8	11	0	1	1	12	13	414	1339	353	16	4	15	42	0	0	12	0	604	369	34	27
GERMANY, FED. REP. OF	703	1048	108	70	8269	8489	791	636	90	228	1862	1844	518	384	0	0	3389	2664	5	0	63	36	404	271
GREECE	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0	0	79	0	0	0
IRELAND	0	0	0	0	0	37	0	0	169	63	158	16	36	19	0	0	0	0	0	0	17	0	1	0
ITALY	1243	663	658	256	528	161	369	157	256	105	124	109	3	3	0	0	1062	400	0	--	1341	254	0	14
MALTA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	102	105	0	0	0	0	0	0
NETHERLANDS	0	19	2	1	0	0	--	0	1	1	89	29	1	126	120	0	1443	717	0	0	3	--	2	8
PORTUGAL	2	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	181	71	0	0	290	77	0	0
SPAIN	0	--	0	0	1	4	0	48	--	--	371	60	0	2	0	0	22	0	0	0	252	26	0	0
SWEDEN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	--	--	0
SWITZERLAND	19	7	1	1	0	0	6	0	2	6	14	9	11	4	0	0	64	130	0	0	171	265	0	0
UNITED KINGDOM	72	38	23	24	3065	1908	531	321	147	482	32	2	504	102	529	265	676	813	156	31	2966	1777	6535	2711
OTHER W. EUROPE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2[b]	0	0	0
TOTAL W. EUROPE	2108	1802	800	365	11939	10601	1698	1176	678	1299	4215	2432	1090	683	664	307	7108	4900	173	31	5929	2935	6976	3031
POLAND	0	0	0	0	0	0	44	66	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROMANIA	0	0	1680	558	0	0	0	0	124	0	0	0	48	0	0	0	0	40	0	0	1682	1211	0	0
TOTAL EUROPE	2108	1802	2480	923	11939	10601	1742	1242	802	1299	4215	2432	1138	683	664	307	7108	4940	173	31	7611	4146	6976	3031
AUSTRALIA	0	0	0	0	0	0	0	0	0	0	0	0	--	0	0	0	177	487	0	0	0	--	0	0
CHINA, PEOPLE'S REP. OF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	0	0	0	0	0	0
HONG KONG	7	2	0	1	0	1	27	0	0	0	0	0	0	0	0	0	0	0	0	0	42	11	0	0
INDIA	36	40	0	0	0	0	--	0	0	0	--	0	0	0	0	0	0	0	0	0	0	0	0	0
INDONESIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	129	0	0	0
IRAN	0	0	0	0	137	0	0	0	0	0	0	0	0	0	0	0	145	0	0	0	0	0	0	0
ISRAEL	49	0	0	0	17	11	5	0	4	59	15	8	3	0	0	0	1144	1185	0	0	38	109	0	0
JAPAN	658	534	82	102	3669	3897	4597	1480	5654	2730	4172	4460	219	657	0	0	927	722	409	291	7037	4115	3235	3714
KOREA, REP. OF	0	0	64	0	0	0	0	0	0	--	0	9	0	0	0	0	0	0	0	0	318	634	0	0
MALAYSIA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1108	369	0	0
NEW ZEALAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	121	0	0	0	0	0	0
PHILIPPINES	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1064	2456	0	0
SINGAPORE	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	648	961	0	0
SOUTH AFRICA	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1251	529	0	0	465	1351	0	0
TAIWAN	--	0	148	111	0	--	10466	12328	256	77	159	0	0	0	0	0	0	0	0	0	210	899	0	0
THAILAND	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	125	603	0	0
OTHER A, A & O	0	0	0	0	0	0	0	0	0	0	0	0	2[c]	0	0	0	0	0	0	0	0	0	0	1[d]
TOTAL A, A & O	750	576	294	214	3823	3909	15096	13808	5914	2866	4346	4477	224	657	0	0	3663	3079	409	291	11184	11508	3235	3715
BRAZIL	0	0	0	0	0	0	0	0	0	0	28	1	1	0	0	0	0	0	0	0	97	0	0	0
CANADA	213	316	351	331	194	1392	309	421	341	2560	33	98	78	234	139	32	9709	10026	3	186	800	2628	142	603
COLOMBIA	0	0	1	0	0	0	0	0	0	0	0	--	0	0	0	0	0	0	0	0	0	4	0	0
COSTA RICA	0	0	0	2	0	0	0	0	0	0	37	0	0	0	0	0	0	0	0	0	0	4	0	0
MEXICO	12	26	5	3	1	2	1	0	1	1	3	1	--	38	0	0	159	2205	0	0	589	1097	0	0
PERU	0	0	0	0	0	0	0	0	0	0	0	0	58	0	0	0	0	0	0	0	0	0	0	0
VENEZUELA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	487	1295	0	0	0	0	0	0
OTHER AMERICAS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19[e]	0	0	0
TOTAL AMERICAS	225	342	357	336	195	1394	310	421	342	2561	101	100	137	272	139	32	10355	13526	3	186	1505	3733	142	603
GRAND TOTAL	3083	2720	3131	1473	15957	15904	17148	15471	7058	6726	8662	7009	1499	1612	803	339	21126	21545	585	508	20300	19387	10353	7349

SOURCE: U.S. Census Bureau.

a. See February ORGANON, page 28, for other 1979 & 1980 U.S. man-made fiber imports by country of origin.

b. Denmark 2

c. Iraq 2

d. Mauritania 1

e. El Salvador 19.

The commodity numbers covered are:

A. Nylon 390.3030, 3130 & .4338; Polyester 309.3040, .3140 & .4342; Acrylic 309.3050, .3150 & .4345; Other 309.3065, .3165, .4346 & .4355.

B. Nylon 310.0109, .0149, .0209 & .0249; Polyester 130.0110, .0150, .0210 & .0250; Other 310.0114, .0170, .0214, .0270, .0530, .0550, .0630 & .0650.

C. Rayon 309.6615 & .7510; Non-Cellulosic 309.6000, .6625, .6630, .6645, .6660, .7000, .7525, .7530, .7540 & .7555.

D. Rayon 310.4005, .4030, .5005 & .5030; Non-Cellulosic 310.4015, .4027, .4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

E. 309.2800, .2900, .9800 & .9900

U.S. EXPORTS OF MAN-MADE FIBERS

ITEM	COMMODITY NUMBER AS OF 1/1/78	THOUSAND POUNDS					THOUSAND DOLLARS				
		1976	1977	1978	1979	1980	1976	1977	1978	1979	1980
RAYON+ACETATE											
FILAMENT YARN[a]											
ACETATE - TEXTURED	310.0006	37305	24741	1946	3456	2585	32418	22989	2228	4564	3574
- OTHER											
RAYON - HIGH TENACITY	310.0026	3627	2696	17027[b]	26770[b]	24130[b]	3188	3070	15339	24886	28155
- OTHER		3219	2948				3049	2997			
MONOFILAMENTS	309.0110	INCL. IN FILAMENT		1413	521	149	INCL. IN FILAMENT		1579	645	343
STRIPS	309.2210	YARN ABOVE		351	43	66	YARN ABOVE		308	58	61
SUBTOTAL ABOVE		**44151**	**30385**	**20737**	**30790**	**26930**	**38655**	**29056**	**19454**	**30153**	**32133**
STAPLE+TOW - RAYON	309.4222	27687	56719	80453	96844	64817	14144	31106	39534	55706	44031
STAPLE - ACETATE	309.4219	1300	948	6451	9663	6255	829	591	4783	7433	6145
SUBTOTAL ABOVE		**28987**	**57667**	**86904**	**106507**	**71072**	**14973**	**31697**	**44317**	**63139**	**50176**
WASTE, ADVANCED & NOT ADVANCED	309.7400	14582	12580	6975	9551	6090	4460	3713	2312	3684	2872
NON-CELLULOSIC FIBERS											
FILAMENT YARN[a]											
NYLON - TEXTURED	310.0008 & .0009	29948	29539	21392	44797	53773	33127	32204	28904	63662	19723
- HIGH TENACITY	310.0027	39734	43790	31768[c]	46287[c]	57804[c]	37551	43272	27057	43503	63637
- OTHER	310.0029	19716	27144	11269	21223	24967	28915	39220	17282	31528	42082
POLYESTER - TEXTURED	310.0010	9326	15595	29469	85579	114910	11928	19933	34340	105864	141835
- HIGH TENACITY	310.0032	38161	35058	6187[c]	22407[c]	23202[c]	35166	33752	6276	24507	27660
- OTHER	310.0034			6780[d]	8616[d]	7493[d]			6714	9391	8793
OTHER - TEXTURED	310.0014	5234	7374	3671	9993	19005	6003	8201	5043	12163	23056
- OLEFIN	310.0040	7191	7864	2747	1990	2520	15191	20745	2924	1998	2999
- OTHER	310.0044			4384	5050	5265			12097	17181	18734
MONOFILAMENTS, LESS THAN 60 DENIER		INCL. IN FILAMENT YARN ABOVE					INCL. IN FILAMENT YARN ABOVE				
MONOFILAMENTS, 60 DENIER & OVER											
NYLON		3928	1337				6246	3619			
OTHER		14635	14558				26343	26248			
MONOFILAMENTS, ALL DENIERS											
NYLON	309.0120			16566	14916	15307			25173	30001	30834
POLYESTER	309.0140			32942[e]	21349[e]	18985[e]			32013	24923	21987
OTHER	309.0170			6209	5927	8665			15875	18693	28813
STRIPS	309.2220 & .2270			1033	2688	3427			2493	4566	5181
SUBTOTAL ABOVE		**167873**	**182259**	**174417**	**290822**	**355323**	**200470**	**227194**	**216191**	**387980**	**435334**
STAPLE - NYLON	309.4240	36548	23360	26221	33857	29306	27374	17302	21834	29779	30141
- POLYESTER	309.4242	85954	118940	218674	307246	447290	44003	53734	97225	165284	285737
- ACRYLIC	309.4245	91708	74288	109139	181112	145172	54131	44288	63489	109404	103264
- OLEFIN	309.4246	12469	6859	1873	6910	3275	11317	9586	1245	6304	2371
- OTHER	309.4247			9672	16749	17751			10141	19391	25654
GROUPED FILAMENTS											
NYLON	309.3220	347	40	6239	10614	7282	299	66	8333	13816	11747
POLYESTER	309.3240	4300	6449	37790[d]	78566[d]	54880[d]	2577	4290	26537	69067	50247
ACRYLIC	309.3250 & .3255	12705	12314	19338	23281	27517	12581	10188	14758	18389	20408
OTHER		260	125				302	407			
SUBTOTAL ABOVE		**244291**	**242375**	**428946**	**658335**	**732473**	**152584**	**139861**	**243562**	**431434**	**529569**
WASTE, ADVANCED & NOT ADVANCED											
NYLON	309.7620	70159	66090	11232	18034	14520	18674	15406	4897	7514	9050
POLYESTER	309.7630			48917	77424	61153			12726	32029	25592
ACRYLIC	309.7640			3793	4807	2352			1142	1223	801
OTHER	309.7660			24717	37478	38395			6889	11950	13965
TOTAL MAN-MADE FIBER ABOVE		**570043**	**591356**	**806638**	**1233748**	**1308308**	**429816**	**446927**	**551490**	**969106**	**1099492**
TEXTILE GLASS FIBER	309.2700 & .9700	29898	29204	29230	47494	54407	18802	20779	23498	38867	54269
GRAND TOTAL ABOVE		**599941**	**620560**	**835868**	**1281242**	**1362715**	**448618**	**467706**	**574988**	**1007973**	**1153761**

SOURCE: U.S. Census Bureau Report.

a. Includes thrown, singles and plied yarn.

b. Includes an undetermined amount of rayon tire cord and cord fabric.

c. Includes an undetermined amount of non-cellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

e. This figure is an obvious misclassification. Most of this poundage should be included in filament yarn.

(Continued from page 53)

for 12% last year, with the balance of 1% coming from Europe.

Four Asian countries, i.e., Taiwan, Korea, Hong Kong and the Philippines, account for 76% of all U.S. imports of man-made fiber apparel last year. In 1979 those countries represented 71% of the total.

(Continued on page 60)

7

BEST COPY AVAILABLE

SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION

COUNTRY	A CELLULOSIC YARN. MONOFIL & STRIPS				B NON-CELLULOSIC TEXTILE YARN				C NON-CELLULOSIC INDUSTRIAL YARN. MONOFIL & STRIPS				D CELLULOSIC STAPLE+TOW				E NON-CELLULOSIC STAPLE+TOW			
	THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS	
	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980	1979	1980
CANADA	4619	3199	4106	3090	28674	22343	42463	37406	8272	9386	14843	16180	7576	3928	4699	2972	90696	76705	61552	60293
COSTA RICA	31	53	43	54	1686	1795	2056	2526	230	495	464	1479	1337	549	643	247	3981	3269	3158	2514
DOMINICAN REP	54	123	69	114	3062	2502	4094	3321	675	1079	1021	1419	93	153	61	97	304	768	218	827
EL SALVADOR	651	262	794	304	3167	2176	3954	3173	1249	316	1651	754	552	557	361	354	6491	7774	4650	6863
GUATEMALA	960	578	1024	744	1899	2908	2299	3537	319	1650	438	1957	767	275	550	193	4344	7384	3520	5159
HAITI	155	39	59	36	959	609	1076	743	275	53	211	82	14	0	5	0	17	11	24	10
HONDURAS	10	0	11	0	3018	1538	3641	1715	907	18	1175	40	1148	911	845	617	780	209	423	180
JAMAICA	22	32	35	41	942	453	1815	922	32	6	76	13	0	0	0	0	18	--	56	3
MEXICO	330	55	470	97	3068	4521	4000	5855	2745	2270	3950	5874	6563	9050	3821	6030	10066	14588	8121	11818
NICARAGUA	1	0	1	0	52	44	64	78	95	7	295	22	443	157	413	152	723	1734	473	1285
PANAMA	35	33	20	60	197	200	486	349	11	65	34	170	55	20	33	41	179	109	201	178
TRINIDAD	1	1	7	1	25	50	60	188	41	3	158	17	37	3	19	12	277	48	626	135
OTHER	13	0	18	0	18	35	65	65	23	136	75	244	15	12	13	9	119	30	293	25
NORTH AMERICA	**6882**	**4375**	**6657**	**4541**	**46767**	**39174**	**66073**	**59878**	**14874**	**15484**	**24391**	**28251**	**18600**	**15615**	**11463**	**10724**	**117995**	**112629**	**83315**	**89290**
ARGENTINA	8	227	35	335	470	3682	816	5491	310	927	740	1674	1267	1314	827	1149	10461	9467	7298	7209
BOLIVIA	0	0	0	0	278	344	332	508	388	3	350	13	0	405	0	315	774	2561	502	2162
BRAZIL	3	788	1	1103	1963	2957	3532	5880	2566	2878	3160	6403	300	416	211	323	5505	9026	4131	6570
CHILE	258	206	313	277	1975	1373	3219	2093	158	249	574	626	58	264	57	203	5939	4052	3642	3076
COLOMBIA	5	170	10	102	1656	1745	1962	2368	925	748	2943	2881	3803	2832	1962	1686	9029	7454	5512	4943
ECUADOR	364	321	568	570	1863	1906	2153	2924	714	968	883	1143	1538	1930	1147	1340	10311	8395	6527	5865
GUYANA	3	0	16	0	0	135	0	350	0	0	0	0	0	0	0	0	4	43	6	90
PARAGUAY	0	0	0	0	0	--	0	1	0	0	0	0	0	0	0	0	59	170	56	147
PERU	3	46	20	70	654	4252	589	5599	43	681	74	1039	874	788	521	567	1139	2588	911	2260
URUGUAY	18	23	20	34	239	204	483	327	72	108	99	202	130	1519	111	1136	1907	2342	1881	1983
VENEZUELA	1737	353	2426	563	999	3036	1546	5166	1291	1902	2224	3824	16563	10871	9995	8119	756	1731	667	1427
OTHER	0	0	0	0	4	3	4	6	0	0	0	0	4	0	1	0	0	0	1	0
SOUTH AMERICA	**2399**	**2134**	**3409**	**3054**	**10101**	**19637**	**14636**	**30713**	**6467**	**8464**	**11047**	**17805**	**24537**	**20339**	**14832**	**14838**	**45884**	**47829**	**31134**	**35732**
BELGIUM/LUX.	9474	8529	7734	7201	9141	22419	20010	34169	21291	21280	30105	32418	1031	136	626	193	26405	21196	28392	26585
DENMARK	18	--	14	1	2632	484	2974	512	665	142	773	166	16	24	27	30	8521	12056	6912	11118
FRANCE	94	34	105	26	2856	2919	3487	3648	1092	1094	2309	2421	302	371	357	396	2301	1877	1866	1618
GERMANY, FED. REP. OF	167	39	261	139	6185	3204	8054	4079	3261	4362	4918	6304	538	976	487	842	12846	8390	10263	6347
IRELAND	0	9	0	16	6560	6011	7488	8600	196	339	250	409	0	2	0	2	1531	813	869	804
ITALY	685	67	648	118	6160	2622	6579	3692	2689	1133	3178	1552	288	190	237	276	32764	10888	19847	8029
NETHERLANDS	55	5	59	9	840	1279	965	1639	264	781	451	879	122	276	81	316	8410	7863	5981	5946
UNITED KINGDOM	234	48	391	48	19368	23758	26887	32930	7919	5659	10726	9142	575	506	526	398	28368	17872	24734	16006
SUBTOTAL EEC	**10727**	**8731**	**9212**	**7558**	**53742**	**62696**	**76444**	**89269**	**37377**	**34790**	**52710**	**53291**	**2872**	**2481**	**2341**	**2453**	**121146**	**80955**	**98864**	**76453**
AUSTRIA	4	0	21	0	1134	664	1219	811	192	164	346	359	5	6	6	7	39	1	37	4
CZECHOSLOVAKIA	0	125	0	504	0	1	0	15	190	105	859	602	0	0	0	0	0	0	0	0
FINLAND	104	831	42	980	1038	1937	1280	2850	94	739	73	680	38	40	22	38	2591	2424	1987	2066
GERMAN DEM. REP.	0	0	0	0	0	11	0	30	404	245	722	426	0	9	0	15	51	39	51	40
GREECE	18	19	23	78	265	13	294	18	357	228	1096	500	13	82	13	75	3601	1650	2010	1206
ICELAND	0	4	0	12	20	104	20	106	0	90	0	87	0	0	0	0	445	4	389	5
NORWAY	0	0	0	0	1184	1353	1399	1676	0	30	0	65	37	71	33	76	734	573	552	505
POLAND	815	485	801	761	4469	963	5842	1487	2861	4179	1927	3648	0	0	0	0	4735	3873	3150	3016
PORTUGAL	0	0	0	0	43	232	51	359	859	89	701	188	0	20	0	32	1998	915	1201	824
ROMANIA	0	0	0	0	0	0	0	0	0	0	0	0	31	0	17	0	71	506	33	620

SPAIN	2	2	27	2	1673	1310	2076	1570	2492	2045	2129	2672	125	85	70	74	6305	5683	4664	4081
SWEDEN	74	6	106	30	1534	617	1699	815	959	1810	957	1884	55	106	51	79	4038	3015	3429	2938
SWITZERLAND	40	97	29	67	1149	1071	1875	1442	60	32	308	167	5	60	5	45	2495	1955	2046	1718
TURKEY	0	0	0	0	0	1	0	3	10066	15918	8672	16483	0	0	0	0	1498	1334	904	915
USSR	3019	1476	2833	2153	239	578	400	896	--	0	1	0	0	95	0	120	5164	2313	6413	2900
YUGOSLAVIA	0	0	0	0	29	0	53	0	7	1422	28	1658	1080	0	572	0	406	674	306	593
OTHER	0	0	0	0	0	3	0	1	24	--	56	1	0	0	0	0	2	0	1	0
EUROPE	14803	11776	13094	12145	66519	71554	92652	101348	55942	61886	70585	82711	4261	3055	3130	3014	155319	105974	126037	97684
AUSTRALIA	1391	1596	1714	2508	4789	7848	8069	13797	3517	1863	6340	3951	654	779	630	1098	20786	17481	16117	16450
BANGLADESH	0	0	0	0	134	84	108	62	256	0	174	0	0	0	0	0	0	0	0	0
CHINA, PEOPLE'S REP. OF	0	2573	0	3860	22205	52210	27590	54297	219	9055	232	7467	0	10	0	5	131743	314004	62175	194466
HONG KONG	0	39	0	58	71	823	121	1020	583	345	598	703	8175	7397	4881	4917	26369	19133	14476	12005
INDIA	9	0	7	0	468	3644	461	4439	1319	1055	1217	1146	413	2720	1094	1672	2380	1784	2126	1666
INDONESIA	0	0	0	0	1163	120	1085	175	109	161	291	354	7386	3959	4477	2486	918	1620	625	1216
IRAN	131	0	158	0	0	0	0	0	447	0	353	0	29	0	19	0	304	0	237	0
IRAQ	0	0	0	0	0	79	0	261	337	0	415	0	0	0	0	0	0	0	0	0
ISRAEL	94	57	124	106	3303	6614	3447	6940	10658	6654	9576	7261	46	108	36	45	2267	2133	2104	1778
JAPAN	137	75	102	125	4736	2806	7212	5992	5571	10700	7649	14063	669	706	560	457	28385	10681	20042	9987
JORDAN	0	0	0	0	40	168	70	172	80	11	133	18	0	0	0	0	25	2	7	6
KOREA, REP. OF	1561	1818	1362	2428	1931	610	2026	1284	714	568	720	1135	3945	922	2226	795	21916	2517	15062	1631
LEBANON	0	0	0	0	368	457	427	449	8	42	47	63	89	0	201	0	8	108	35	114
MALAYSIA	28	152	27	86	0	0	0	0	12	89	45	148	367	113	306	72	334	1527	174	1223
NEW GUINEA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	119	109	93	119
NEW ZEALAND	25	24	72	74	337	586	654	1214	171	183	460	408	241	1	177	1	1454	2525	1306	2476
PAKISTAN	0	0	0	0	71	10	114	17	44	1	60	11	18	159	14	120	13344	352	6525	214
PHILIPPINES	297	108	285	120	722	358	642	416	5074	286	3993	472	24386	11652	12724	7172	7780	10164	4814	6692
SAUDI ARABIA	0	2	0	8	24	7	29	55	28	253	69	568	17	0	5	0	69	2	115	14
SINGAPORE	0	26	0	52	15	20	59	44	6	65	25	173	1	113	2	108	301	524	400	826
SRI LANKA	3	2	2	2	46	0	73	0	1	0	3	0	0	--	0	2	519	0	261	0
SYRIA	267	0	185	0	1615	1044	1388	1056	20	66	27	95	28	0	2	0	0	13	0	15
TAIWAN	6	6	10	4	479	676	555	843	3340	2705	3401	2857	10591	585	5074	462	39922	36513	22684	26915
THAILAND	76	158	83	248	66	3	150	12	187	93	284	233	1576	288	943	256	323	1634	345	1298
OTHER	0	2	0	2	1	47	1	41	20	163	17	169	6	0	5	0	52	106	44	103
ASIA & OCEANIA	4025	6638	4131	9681	42584	78214	54281	92586	32721	34358	36129	41295	58637	29512	33376	19663	299318	422932	169767	279214
ALGERIA	0	0	0	0	2804	5255	2887	7619	0	26	0	41	0	530	0	281	1	0	9	0
BOTSWANA	0	0	0	0	255	0	235	0	0	0	0	0	0	0	0	0	1443	0	982	0
EGYPT	0	0	0	0	1296	3573	1726	4129	1947	2705	2095	2736	0	0	0	0	2590	2919	1645	2187
KENYA	0	0	0	0	0	191	[illegible]	356	2	3	9	23	3	21	2	20	0	132	0	88
MOROCCO	1043	644	1047	871	760	516	[illegible]	804	296	1553	248	1245	2	245	6	384	5326	4270	3124	3100
MOZAMBIQUE	0	0	0	0	0	608	[illegible]	1077	--	0	1	0	0	0	0	0	0	0	0	0
NIGERIA	0	38	0	36	3968	6179	5599	7769	81	91	100	269	0	0	0	0	549	2355	450	1985
SOUTH AFRICA	1636	1324	1808	1785	1848	2786	2516	3806	1240	2804	1573	3696	310	1755	212	1247	29644	33254	14803	19920
TUNISIA	0	0	0	0	115	102	148	133	0	0	0	0	0	0	0	0	15	20	17	18
ZAIRE	0	0	0	0	77	138	131	208	0	0	0	0	0	0	0	0	0	0	0	0
OTHER	3	0	7	0	153	8	135	12	4	14	16	41	157	0	118	0	251	160	149	151
AFRICA	2682	2006	2862	2692	11276	19356	14146	25913	3570	7196	4042	8051	472	2551	338	1932	39819	43110	21179	27449
GRAND TOTAL	30791	26929	30153	32113	177247	227935	241788	310438	113574	127388	146194	178113	106507	71072	83139	50176	658335	732474	431432	529569

The commodity numbers are:
A. 309.0110, .2210, 310.0006 & .0026.
B. 310.0008, .0009, .0010, .0014, .0029, .0034, .0040 & .0044.
C. 309.0120, .0140, .0170, .2220, .2270, 310.0027 & .0032.
D. 309.4219 & .4222.
E. 309.3220, .3240, .3250, .3255, .4240, .4242, .4245, .4246 & .4247.

9

U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER & MANUFACTURES, COTTON MANUFACTURES & WOOL MANUFACTURES

THOUSAND POUNDS

	YEAR 1977			YEAR 1978			YEAR 1979			YEAR 1980		
PRODUCTS	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]
RAYON+ACETATE												
YARN+MONOFILAMENTS	23,460	30,385	6,925 E	25,729	20,737	4,992 I	13,271	30,790	17,519 E	8,302	26,390	18,088 E
STAPLE+TOW	57,805	57,667	138 I	41,125	86,904	45,779 E	16,529	106,507	89,978 E	10,306	71,072	60,766 E
WASTE	579	12,580	12,001 E	391	6,975	6,584 E	803	9,551	8,748 E	339	6,090	5,751 E
SUBTOTAL ABOVE	**81,844**	**100,632**	**18,788 E**	**67,245**	**114,616**	**47,371 E**	**30,603**	**146,848**	**116,245 E**	**18,947**	**103,552**	**84,605 E**
NON-CELLULOSIC FIBERS												
YARN+MONOFILAMENTS	92,503	182,259	89,756 E	52,208	174,417	122,209 E	20,004	290,822	270,818 E	19,614	355,323	335,709 E
STAPLE+TOW	52,933	242,375	189,442 E	60,486	428,946	368,460 E	39,319	658,335	619,016 E	35,568	732,473	696,905 E
WASTE	23,174	66,090	42,916 E	25,976	88,659	62,683 E	21,126	137,743	116,617 E	21,546	116,420	94,874 E
SUBTOTAL ABOVE	**168,610**	**490,724**	**322,114 E**	**138,670**	**692,022**	**553,352 E**	**80,449**	**1,086,900**	**1,006,451 E**	**76,728**	**1,204,216**	**1,127,488 E**
TOTAL FIBER ABOVE[b]	**250,454**	**591,356**	**340,902 E**	**205,915**	**806,636**	**600,723 E**	**111,052**	**1,233,748**	**1,122,696 E**	**95,675**	**1,307,768**	**1,212,093 E**
MAN-MADE FIBER MANUFACTURES[c]												
SLIVER, TOPS & ROVING	4,798	12,124	7,326 E	7,556	10,147	2,591 E	6,653	13,252	6,599 E	2,792	13,103	10,311 E
SPUN YARNS	27,971	23,765	4,206 I	45,378	21,759	23,619 I	25,648	34,181	8,533 E	22,850	32,845	9,995 E
THREAD & CRAFT YARNS	3,488	3,629	141 E	2,516	5,800	3,284 E	2,615	8,368	5,753 E	2,306	7,404	5,098 E
TIRE CORD & FABRIC	2,684	35,468	32,784 E	100	63,862	63,762 E	97	87,008	86,911 E	47	115,514	115,467 E
WOVEN FABRIC	67,701	131,352	63,651 E	87,760	165,707	77,947 E	64,577	228,634	164,057 E	67,283	249,769	182,486 E
KNIT FABRICS	12,637	11,315	1,322 I	12,443	9,756	2,687 I	8,011	16,413	8,402 E	5,985	23,232	17,247 E
NARROW FABRICS	7,552	10,470	2,918 E	9,387	12,025	2,638 E	8,947	12,531	3,584 E	8,137	25,471	17,334 E
APPAREL - KNIT	218,681	40,294	324,928 I	242,397	48,644	376,539 I	184,497	60,472	299,136 I	187,745	127,098	251,423 I
- NOT KNIT	146,541			182,786			175,111			190,776		
HOME FURNISHINGS	38,662	56,636	60,490 E	52,264	43,840	51,734 E	48,817	65,629	86,907 E	52,723	111,380	124,386 E
OTHER		42,516			60,158			70,095			65,729	
TOTAL MANUFACTURES	**530,715**	**367,569**	**163,146 I**	**642,587**	**441,698**	**200,889 I**	**524,973**	**596,583**	**71,610 E**	**540,644**	**771,545**	**230,901 E**
TOTAL MAN-MADE FIBER & MANUFACTURES	**781,169**	**958,925**	**177,756 E**	**848,502**	**1,248,336**	**399,834 E**	**636,025**	**1,830,331**	**1,194,306 E**	**636,319**	**2,079,313**	**1,442,994 E**
COTTON MANUFACTURES[d]	**669,352**	**369,462**	**299,890 I**	**845,421**	**355,745**	**489,676 I**	**746,096**	**477,960**	**268,136 I**	**810,930**	**523,094**	**287,836 I**
WOOL MANUFACTURES[e]	**116,553**	**13,042**	**103,511 I**	**129,369**	**12,567**	**116,802 I**	**109,543**	**15,592**	**93,951 I**	**103,288**	**24,264**	**79,024 I**

SOURCES: The man-made fiber import and export data are from the U.S. Bureau of the Census.

The man-made, cotton and wool manufactures data are from *"Cotton and Wool Situation"*, a publication of the U.S. Department of Agriculture.

The total man-made fiber and manufactures import, export and balance data of this table cover the cellulosic and non-cellulosic fibers only; textile glass fiber is excluded.

a. E means a net export balance; I is a net import balance.

b. The fibers included are shown as "Total Man-Made Fiber Above" on pages 52 and 55 herewith.

c. Man-made fiber equivalent.

d. Raw cotton equivalent. Data are similar to those on page 37 of the March 1981 ORGANON.

e. Raw wool content. The data differ from those on page 37 of the March 1981 ORGANON to the extent that noils and waste are included here.

SUMMARY OF U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBERS & MANUFACTURES

MILLION POUNDS

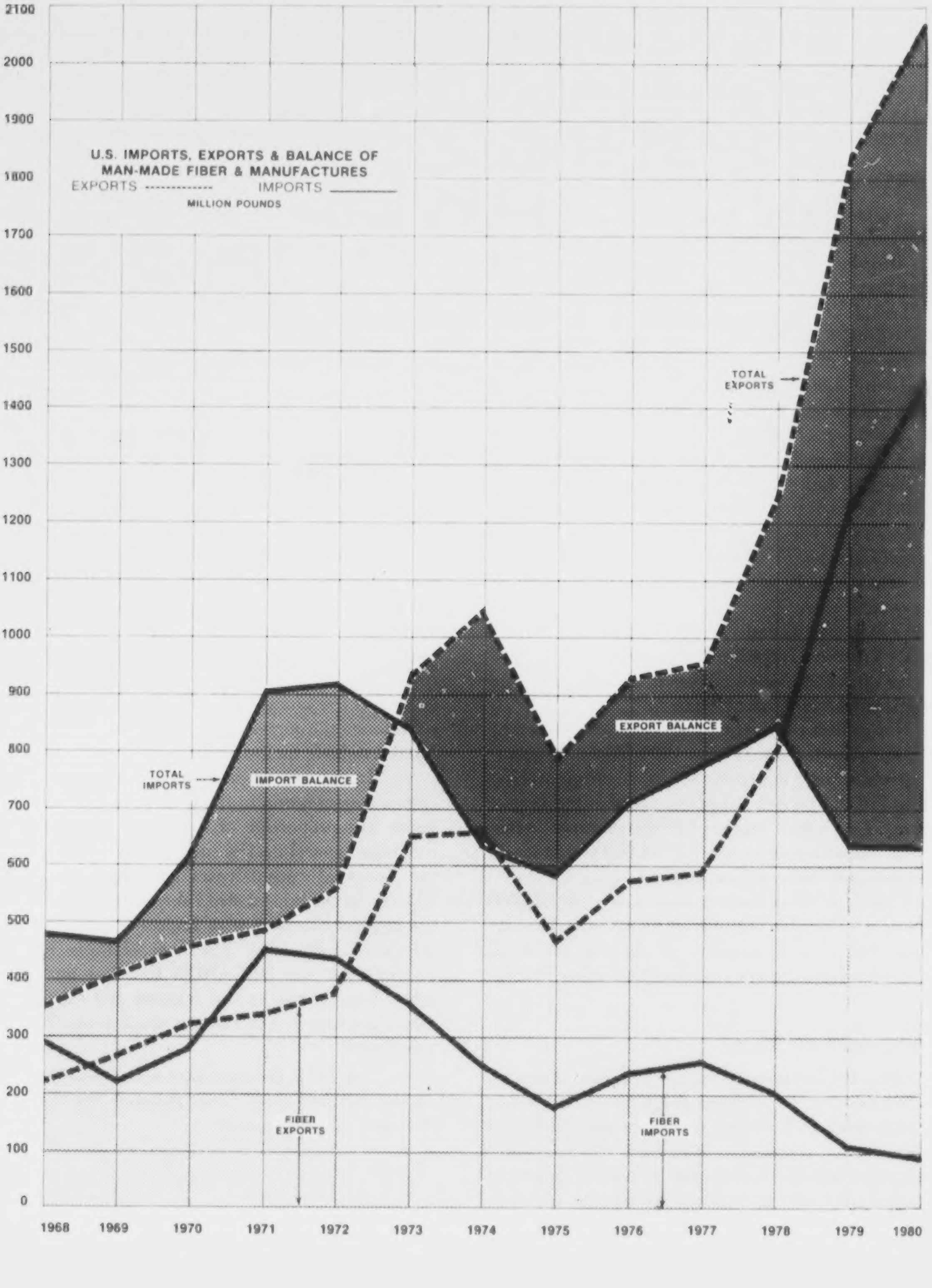
	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
IMPORTS												
TOTAL FIBER[a]	215.4	285.1	451.2	438.6	366.5	259.7	181.3	230.5	250.5	205.9	111.0	95.7
TOTAL MANUFACTURES[b]	257.5	329.3	451.1	480.5	465.3	371.3	400.4	479.5	530.7	642.6	525.0	540.6
TOTAL IMPORTS	**472.9**	**614.4**	**902.3**	**919.1**	**831.8**	**631.0**	**581.7**	**710.0**	**781.2**	**848.5**	**636.0**	**636.3**
EXPORTS												
TOTAL FIBER[a]	261.5	313.5	333.7	384.2	652.0	658.6	472.9	570.0	591.3	806.6	1233.7	1307.8
TOTAL MANUFACTURES[b]	146.2	147.1	146.7	177.6	288.2	390.7	322.4	352.2	367.6	441.7	596.6	771.5
TOTAL EXPORTS	**407.7**	**460.6**	**480.4**	**561.8**	**940.2**	**1049.3**	**795.3**	**922.2**	**958.9**	**1248.3**	**1830.3**	**2079.3**
BALANCE[c]	65.2 I	153.8 I	421.9 I	357.3 I	108.4 E	418.3 E	213.6 E	212.2 E	177.7 E	399.8 E	1194.3 E	1443.0 E
U.S. PRODUCTION[d]	5283.8	5130.2	5877.8	6991.2	7978.0	7698.7	6876.6	7744.5	8525.1	8967.1	9640.7	8906.4
U.S. NET AVAILABLE	5349.0	5284.0	6299.7	7348.5	7869.6	7280.4	6663.0	7532.8	8347.4	8567.3	8446.4	7463.4
IMPORTS AS % OF PRODUCTION	*8.9*	*12.0*	*15.4*	*13.1*	*10.4*	*8.2*	*8.5*	*9.2*	*9.2*	*9.5*	*6.6*	*7.1*
EXPORTS AS % OF PRODUCTION	*7.7*	*9.0*	*8.2*	*8.0*	*11.8*	*13.6*	*11.6*	*11.9*	*11.2*	*13.9*	*19.0*	*23.3*

a. As shown in Total Fiber Above in the table above and earlier.

b. As shown in Total Manufactures in the table above and earlier.

c. E means a net export balance; I means a net import balance.

d. Production means the production of yarn, monofilaments, staple+tow (excluding textile glass) and producers' shipments of waste from February 1981 ORGANON page 20.


U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER & MANUFACTURES
EXPORTS ------------ IMPORTS ________
MILLION POUNDS
TOTAL IMPORTS
IMPORT BALANCE
EXPORT BALANCE
TOTAL EXPORTS
FIBER EXPORTS
FIBER IMPORTS
2100
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
1968
1969
1970
1971
1972
1973
1974
1975
1976
1977
1978
1979
1980

11

(Continued from page 55)

In the Americas, Mexico, Haiti and the Dominican Republic accounted for 71% of the apparel imported from the Americas into the United States.

Europe remains a minor supplier. Within the small European total, the largest supplier is Italy.

EXPORTS BY DESTINATION

A picture of the by-country and regional distribution of the principal man-made exports in 1979 and 1980 is afforded by the table on pages 56 and 57. It will be noted that China is the largest importer of U.S. man-made fibers, followed by Canada, Belgium/Luxembourg and the United Kingdom.

Exports of rayon+acetate yarn, monofil & strips decreased by 3,862,000 pounds from 1979 to 1980. According to Census data, Belgium/Luxembourg is the largest customer of these products, taking 9,474,000 pounds in 1979 and 8,529,000 in 1980. However, the official Belgian data show imports of rayon+acetate yarn from the United States as being only a fraction of these totals. In view of this, it must be adduced that Belgium was largely a sales or billing address and/or port of entry for a majority of these poundages reported as being exported there.

Cellulosic staple+tow exports (excluding exports of acetate cigarette filtration tow) decreased 33% to a level of 71,072,000 pounds, with the Philippines and Venezuela the largest customers.

Non-cellulosic textile yarn exports increased by 50,688,000 pounds from 1979 to 1980. The most significant increases were in exports to China, Belgium/Luxembourg and the United Kingdom, three of the largest customers. Last year's exports of non-cellulosic industrial yarn, monofil & strips at 127,388,000 pounds were 12% higher than the previous year.

Exports of non-celluslosic staple+tow at 732,474,000 pounds were 11% more than the previous year. Exports to China, the largest customer of these products at 314,004,000 pounds, more than doubled from 1979 to 1980.

THE EXPORT PICTURE

The page 58 table shows that cellulosic and non-cellulosic fiber exported from the United States last year constituted 63% of the total man-made fiber and products export poundage. Man-made fiber apparel accounted for only 6% of the total. As noted, exports of textile glass fiber, which are shown in the page 55 table, are excluded from the page 58 table.

ESTIMATED U.S. APPAREL MARKET

According to preliminary calculations, the total fiber available for apparel consumption in the United States in 1980 was the equivalent of 5,622 million pounds of cotton, wool and man-made fibers. This represents a decrease of 1% from 1979 levels. The import share of the U.S. apparel market in 1980, based on the assumptions detailed below, is estimated at 22.7%, an increase of 1.8 percentage points from 1979.

To be noted in the following description of the methodology, all figures represent poundages **available** for consumption rather than actual consumption within any specific calendar year.

In the case of the man-made fibers, the starting point is the total domestic shipments for apparel uses reported to this Bureau by U.S. man-made fiber producers. That portion of the known imports of man-made fibers which goes into apparel applications is then estimated. The sum of these two figures represents the equivalent of mill consumption of man-made fibers for apparel.

Then, the portion of known fabric imports which is consumed in apparel uses is estimated and added, while the corresponding exports are deducted. The total of domestic shipments plus imports of fiber and net imports of fabric represents apparent consumption of fiber and fabric at the garment cutting level. Finally, by adding in the known data on imports of garments and subtracting the corresponding exports, the figure labeled Total Available for Domestic Consumption is derived.

In the case of cotton, the government series on cotton consumption in the United States is the starting point. The proportion of raw cotton consumption destined for apparel uses is then estimated on the basis of the ratios of recent years and the resulting figure appears on the line labeled Fabric from U.S. Mills. Then the apparel component of imported yarn and fabric is estimated and added. The sum of these three items becomes the line ORGANON End Use Survey in the table. Finally, the known imports and exports of garments are factored in and the result is the Total Available figure.

For 1979, the data have been revised as between cotton and man-made fiber, although the total remains the same at 5,672 pounds.

ESTIMATES OF THE APPAREL MARKET IN THE U.S., 1977-1980
AVAILABLE-FOR-DOMESTIC-CONSUMPTION BASIS

MILLION POUNDS (RAW FIBER BASIS)

ITEM	1977			1978			1979			1980 (PRELIM)		
	TOTAL	TOTAL IMPORTS	% TOTAL IMPORTS	TOTAL	TOTAL IMPORTS	% TOTAL IMPORTS	TOTAL	TOTAL IMPORTS	% TOTAL IMPORTS	TOTAL	TOTAL IMPORTS	% TOTAL IMPORTS
COTTON												
IMPORTS OF YARN FOR APPAREL[1]	14	14		31	31		12	12		19	19	
+IMPORTS OF FABRIC FOR APPAREL[1,2]	155	155		195	195		150	150		180	180	
+FABRIC FROM U.S. MILLS	1,566			1,445			1,623			1,650		
ORGANON END USE SURVEY - COTTON[3]	1,735	169		1,671	226		1,785	162		1,849	199	
+IMPORTS OF GARMENTS[1]	348	348		430	430		426	426		464	464	
-EXPORTS OF GARMENTS[1]	65			62			91			181		
TOTAL AVAILABLE FOR DOMESTIC CONSUMPTION	**2.018**	**517**	*25.6*	**2.039**	**656**	*32.2*	**2.120**	**588**	*27.7*	**2.132**	**663**	*31.1*
MAN-MADE FIBERS												
DOMESTIC SHIPMENTS FOR APPAREL[4]	3,200			3,189			3,180			3,225		
+IMPORTS OF FIBER/YARN FOR APPAREL[5]	190	190		179	179		100	100		90	90	
+IMPORTS OF FABRIC FOR APPAREL[1,6]	79	79		100	100		75	75		75	75	
-EXPORTS OF SEMIMANUFACTURED PRODUCTS[1,7]	201			208			286			325		
ORGANON END USE SURVEY - MMF APPAREL[3]	3,268	269		3,260	279		3,069	175		3,065	165	
+IMPORTS OF GARMENTS[1]	366	366		426	426		360	360		379	379	
-EXPORTS OF GARMENTS[1]	40			49			61			127		
TOTAL AVAILABLE FOR DOMESTIC CONSUMPTION	**3.594**	**635**	*17.7*	**3.637**	**705**	*19.4*	**3.368**	**535**	*15.9*	**3.317**	**544**	*16.4*
WOOL												
IMPORTS OF YARN FOR APPAREL[1]	7	7		6	6		4	4		4	4	
+IMPORTS OF FABRIC FOR APPAREL[1]	19	19		26	26		22	22		21	21	
+FABRIC FROM U.S. MILLS	107			108			125			121		
ORGANON END USE SURVEY - WOOL APPAREL[3]	133	26		140	32		151	26		146	25	
+IMPORTS OF GARMENTS[1]	44	44		45	45		39	39		42	42	
-EXPORTS OF GARMENTS[1]	2			6			6			15		
TOTAL AVAILABLE FOR DOMESTIC CONSUMPTION	**175**	**70**	*40.0*	**179**	**77**	*43.0*	**184**	**65**	*35.3*	**173**	**67**	*38.7*
TOTAL (3 FIBERS) AVAILABLE FOR CONSUMPTION	**5.787**	**1.222**	*21.1*	**5.855**	**1.438**	*24.6*	**5.672**	**1.188**	*20.9*	**5.622**	**1.274**	*22.7*

[1] See page 37 of the March 1981 ORGANON issue.

[2] Total cotton fabric imports less estimated poundages for non-apparel uses.

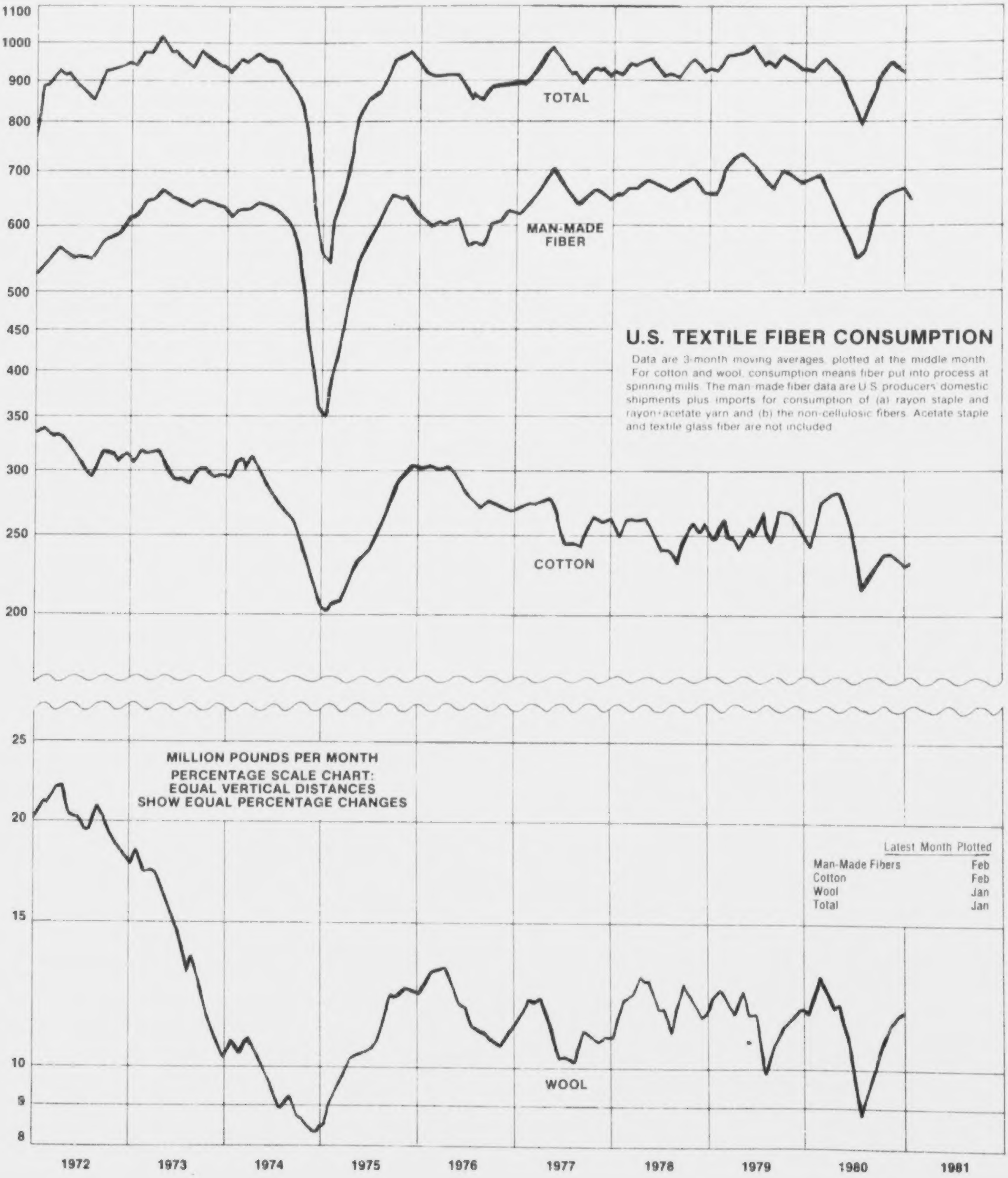
[3] See page 174 of the November 1980 ORGANON issue.

[4] Domestic shipments of man-made fibers used in calculating apparel end uses.

[5] Grand Total man-made fiber imports from page 52 herewith less estimated poundages for nonapparel uses.

[6] Total man-made fiber fabric imports from page 37 of the March 1981 ORGANON issue less estimated poundages for nonapparel uses.

[7] Exports of spun yarn, thread and fabric from page 37 of the March 1981 ORGANON issue less estimated poundages for nonapparel uses.



U.S. TEXTILE FIBER CONSUMPTION

Data are 3-month moving averages, plotted at the middle month. For cotton and wool, consumption means fiber put into process at spinning mills. The man-made fiber data are U.S. producers' domestic shipments plus imports for consumption of (a) rayon staple and rayon+acetate yarn and (b) the non-cellulosic fibers. Acetate staple and textile glass fiber are not included.

	Latest Month Plotted
Man-Made Fibers	Feb
Cotton	Feb
Wool	Jan
Total	Jan

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1981		2 MONTHS	
		JAN	FEB	1981	1980
RAYON+ACETATE					
YARN - SINGLES					
TEXTURED	310.0106 & .0206	1	10	11	171
OTHER	310.0130 & .0230[a]	1182	1139	2321	1300
MONOFILAMENTS	309.0310 & .0610	1	2	3	0
STRIPS, $1/LB & UNDER	309.2000*	0	0	0	0
SUBTOTAL ABOVE		**1184**	**1151**	**2335**	**1471**
STAPLE	309.4320 & .4325	1627	1006	2633	630
GROUPED FILAMENTS	309.3010 & .3110	239	133	372	425
SUBTOTAL ABOVE		**1866**	**1139**	**3005**	**1055**
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	37	7	44	51
NON-CELLULOSIC FIBERS					
YARN - SINGLES					
TEXTURED - NYLON	310.0109 & .0209	197	217	414	124
- POLYESTER	310.0110 & .0210	27	7	34	32
- OTHER	310.0114 & .0214	17	56	73	64
OTHER - NYLON	310.0149 & .0249	204	525	729	1003
- POLYESTER	310.0150 & .0250	111	411	522	784
- OTHER	310.0170 & .0270[b]	170	183	353	251
MONOFILAMENTS	309.0200 & .0330[c]	145	200	345	784
STRIPS, OVER $1/LB	309.2100 & .2500*	21	11	32	33
SUBTOTAL ABOVE		**892**	**1610**	**2502**	**3075**
STAPLE - NYLON	309.4338	525	2686	3211	161
- POLYESTER	309.4342	132	111	243	306
- ACRYLIC	309.4345	1069	1594	2663	2278
- OLEFIN	309.4346	5	0	5	3
- OTHER	309.4355	469	961	1430	2141
GROUPED FILAMENTS					
NYLON	309.3030 & .3130	68	50	118	116
POLYESTER	309.3040 & .3140	0	42	42	0
ACRYLIC	309.3050 & .3150	181	255	436	904
OTHER	309.3065 & .3165	65	116	181	107
SUBTOTAL ABOVE		**2514**	**5815**	**8329**	**6016**
WASTE, NOT ADVANCED - NYLON	309.6625	1598	1587	3185	2759
- POLYESTER	309.6630	1071	1810	2861	485
- ACRYLIC	309.6645	289	258	547	223
- OTHER	309.6660	32	203	235	70
NOILS & GARNETTED FIBERS	309.6000 & .7000*	0	0	0	0
OTHER WASTE, ADVANCED	309.7525 - .7555	119	63	182	78
TOTAL MAN-MADE ABOVE		**9602**	**13643**	**23245**	**15283**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD					
YARN - PLIED					
TEXTURED - CELLULOSIC	310.1106	0	--	--	0
- NON-CELLULOSIC	310.1015[d] & .1109[e]	268	124	392	189
OTHER - CELLULOSIC	310.1030 & .1135[f]	16	--	16	35
- NON-CELLULOSIC	310.1050 & .1070[g]	20	27	47	50
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	10	25	35	203
- OTHER	310.4015 & .4027[i]	1762	1454	3216	4162
OTHER YARNS - NES, INCL. CHENILLE	310.6029 - .8000	352	109	461	302
HANDWORK YARNS & SEWING THREAD	310.9000 - .9140	247	230	477	436
SLIVER, TOPS & ROVING	309.9000	388	473	861	385
TEXTILE GLASS FIBER	309.2800 & .2900[j]	1156	441	1597	1401
GRAND TOTAL ABOVE		**13821**	**16526**	**30347**	**22446**

SOURCE: U.S.Census Bureau.

NES - Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & .0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1110 & .1114.

f. Also includes 310.2010 & .2110.

g. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Chiefly roving. Also includes 309.9800 & .9900.

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEM	1981		2 MONTHS	
	JAN	FEB	1981	1980
RAYON+ACETATE YARN, MONOFIL & STRIPS				
CANADA	318	125	443	116
MEXICO	161	79	240	270
WEST GERMANY	242	290	532	281
NETHERLANDS	236	593	829	68
SPAIN	142	0	142	0
UNITED KINGDOM	1	10	11	293
JAPAN	64	0	64	234
ALL OTHER COUNTRIES[a]	20	54	74	209
TOTAL R+A YARN	**1184**	**1151**	**2335**	**1471**
RAYON+ACETATE STAPLE+TOW				
CANADA	469	474	943	199
AUSTRIA	731	113	844	20
FRANCE	18	83	101	0
WEST GERMANY	0	0	0	18
SWEDEN	332	234	566	362
UNITED KINGDOM	226	76	302	335
JAPAN	90	147	237	116
ALL OTHER COUNTRIES[b]	0	12	12	5
TOTAL R+A STAPLE	**1866**	**1139**	**3005**	**1055**
NON-CELLULOSIC YARN, MONOFIL & STRIPS				
CANADA	50	98	148	144
FRANCE	94	130	224	15
WEST GERMANY	256	382	638	573
ITALY	52	152	204	23
UNITED KINGDOM	57	114	171	66
JAPAN	300	671	971	1984
ALL OTHER COUNTRIES[c]	83	63	146	270
TOTAL N.C. YARN	**892**	**1610**	**2502**	**3075**
NON-CELLULOSIC STAPLE+TOW				
CANADA	328	350	678	401
MEXICO	190	28	218	0
BELGIUM	0	130	130	0
FRANCE	44	797	841	12
WEST GERMANY	541	1963	2504	1951
ITALY	7	813	820	116
POLAND	44	38	82	0
ROMANIA	0	0	0	226
UNITED KINGDOM	208	508	716	676
JAPAN	828	335	1163	994
TAIWAN	324	745	1069	1620
ALL OTHER COUNTRIES[d]	0	108	108	20
TOTAL N.C. STAPLE	**2514**	**5815**	**8329**	**6016**

Other countries supplying 1981 poundages are:

a. Austria 21, Belgium 50, South Korea 1 & Sweden 2.

b. Italy 12.

c. Denmark 1, South Korea 41, Mexico 34, Netherlands 1, Portugal 2, Spain 61, Sweden 2 & Switzerland 4.

d. Hong Kong 1, Ireland 56, Israel 5, Netherlands 39 & Portugal 7.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1981						YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	1981	1980
	TOTAL SHIPMENTS[b]							
MAN-MADE FIBER DATA[c]								
YARN+MONOFILAMENTS[d]								
ACETATE	**20.9**	**21.6**	**21.5**				**64.0**	**80.7**
NYLON[e] - INDUSTRIAL[f]	34.5	34.4	37.2				106.1	126.3
- LOW DENIER INDUSTRIAL[g]	3.0	3.0	3.8				9.8	10.3
- CARPET	67.1	63.8	65.3				196.2	193.2
- TEXTILE	33.7	36.6	38.4				108.7	121.4
POLYESTER - INDUSTRIAL[f]	25.5	24.3	27.3				77.1	82.4
- LOW DENIER INDUSTRIAL[g]	2.1	2.1	2.5				6.7	8.3
- TEXTILE	94.8	96.0	111.3				302.1	312.9
OLEFIN[h]	53.9	53.8	55.4				163.1	163.1
TOTAL NON-CELLULOSIC ABOVE[i]	**314.6**	**314.0**	**341.2**				**969.8**	**1017.9**
STAPLE+TOW+FIBERFILL[j]								
RAYON	**40.9**	**35.4**	**37.9**				**114.2**	**128.2**
NYLON[e]	70.7	67.5	73.9				212.1	180.7
ACRYLIC+MODACRYLIC	59.3	62.2	63.8				185.3	212.2
POLYESTER	208.6	211.1	202.5				622.2	647.9
OLEFIN+VINYON	10.8	10.3	11.2				32.3	30.3
TOTAL NON-CELLULOSIC ABOVE	**349.4**	**351.1**	**351.4**				**1051.9**	**1071.1**
	END-OF-MONTH STOCK							
YARN+MONOFILAMENTS								
ACETATE	**17.0**	**15.4**	**15.8**				**15.8**	**11.1**
NYLON[e] - INDUSTRIAL[f]	37.5	37.9	35.7				35.7	38.0
- LOW DENIER INDUSTRIAL[g]	3.9	3.2	3.1				3.1	3.7
- CARPET	37.7	38.2	38.3				38.3	62.6
- TEXTILE	42.8	43.1	41.8				41.8	58.0
POLYESTER - INDUSTRIAL[f]	23.7	23.1	21.3				21.3	31.2
- LOW DENIER INDUSTRIAL[g]	3.6	3.4	3.5				3.5	2.4
- TEXTILE	100.2	104.1	87.3				87.3	111.3
OLEFIN[h]	63.9	62.3	60.7				60.7	72.1
TOTAL NON-CELLULOSIC ABOVE[i]	**313.3**	**315.3**	**291.7**				**291.7**	**379.3**
STAPLE+TOW+FIBERFILL								
RAYON	**24.2**	**25.1**	**29.3**				**29.3**	**34.3**
NYLON[e]	33.3	37.4	37.3				37.3	84.3
ACRYLIC+MODACRYLIC	76.5	76.3	74.3				74.3	54.9
POLYESTER	174.2	182.3	190.3				190.3	185.6
OLEFIN+VINYON	16.6	16.9	16.2				16.2	20.6
TOTAL NON-CELLULOSIC ABOVE	**300.6**	**312.9**	**318.1**				**318.1**	**345.4**

WOOL & COTTON CONSUMPTION

APPAREL CLASS WOOL	11.0	12.1					23.1	23.2
CARPET CLASS WOOL	0.7	0.9					1.6	1.7
TOTAL RAW WOOL	11.7	13.0					24.7	24.9
RAW COTTON	217.4	245.4	246.1				708.9	811.2

a. Year totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only, see page 21 of the February 1981 issue for annual data.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February 1981 issue for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 21 of the February 1981 issue for annual data.

C 8850-1 6/10/81

Textile ORGANON

FEATURING MAN-MADE FIBERS

VOL. LII • NO. 5

MAY
1981

MONTHLY REVIEW

FIRST QUARTER U.S. MAN-MADE FIBER OUTPUT (EXCEPT ACETATE STAPLE+TOW AND RAYON, SARAN & SPANDEX YARN+MONOFILAMENTS) TOTALED 2,476.8 MILLION POUNDS. FOLLOWING IS THE FIRST QUARTER 1981 AND THE FOURTH QUARTER 1980 PRODUCTION (MILLION POUNDS) AND THE PERCENTAGE CHANGE: ACETATE YARN 61.4 & 68.9 & -11%; RAYON STAPLE 116.3 & 102.0 & +14%; NON-CELLULOSIC FIBER 2,062.2 & 2,145.4 & -4%; TEXTILE GLASS FIBER 236.9 & 217.7 & +9%; AND THE TOTAL OF THESE FIBERS 2,476.8 & 2,534.0 & -2½%. PG 67

NON-CELLULOSIC SHIPMENTS AT RECORD HIGH IN APRIL

Producers' shipments of non-cellulosic fibers (except saran and spandex) were at a new record high level of 760.1 million pounds, 1% more than the previous record of 753.8 million pounds delivered in December 1980 and 9½% above the 694.6 million pounds shipped in March this year. Shipments of polyester filament yarn, at 123.6 million pounds, were at their highest level since March 1977.

NON-CELLULOSIC YARN SHIPMENTS UP 4½% IN APRIL

April deliveries of non-cellulosic yarn+monofilaments (except saran and spandex) totaled 359.5 million pounds, 4½% more than the 343.2 million pounds shipped last month and the highest monthly total since the record 361.9 million pounds delivered during May 1979. However, for the first four months of 1981, shipments totaled 1,335.4 million pounds or 1% less than the 1,346.5 million pounds delivered during the corresponding January-April period last year.

NON-CELLULOSIC STAPLE+TOW SHIPMENTS INCREASED 14% LAST MONTH

Shipments of non-cellulosic staple+tow+fiberfill totaled 400.6 million pounds in April, an increase of 14% over March shipments of 351.4 million pounds and only 1% below the record shipments of 403.8 delivered during December 1980. January-April 1981 deliveries totaled 1,452.5 million pounds, an increase of 3½% over the 1,402.9 million pounds shipped during the same 1980 period.

APRIL AND MARCH SHIPMENTS COMPARED

Following is a comparison of total April shipments of non-cellulosic yarn+monofilaments (except saran and spandex) with March (million pounds), and the percentage change, respectively: nylon industrial 35.9 & 37.2 & -3½%; low denier industrial 2.8 & 3.8 & -26%; carpet 73.4 & 65.3 & +12%; textile 37.3 & 38.4 & -3%; polyester industrial 29.0 & 27.3 & +6%; low denier industrial 2.9 & 2.5 & +16%; textile 123.6 & 111.3 & +11%; olefin 54.6 & 57.4 & -5%; and the total of these fibers 359.5 & 343.2 & +4½%.

Similarly, for non-cellulosic staple+tow+fiberfill, the corresponding data are: nylon 80.0 & 73.9 & +8½%; acrylic+modacrylic 65.3 & 63.8 & +2½%; polyester 243.6 & 202.5 & +20%; olefin+vinyon 11.7 & 11.2 & +4½%; and the total 400.6 & 351.4 & +14%.

CELLULOSIC SHIPMENTS 10% HIGHER IN APRIL

April shipments of acetate filament yarn and rayon staple+tow totaled 65.4 million pounds, 10% greater than the 59.4 million pounds delivered during

March. However, deliveries for the first four months of 1981, at 243.6 million pounds, were 13% below the 279.5 million pounds shipped during January-April 1980.

Acetate filament yarn shipments in April totaled 27.1 million pounds, 26% above March shipments and the highest monthly total since April 1980. For the year to date, shipments of 91.1 million pounds are 17% below those of January-April 1980.

Rayon staple+tow shipments during April totaled 38.3 million pounds, 1% more than the 37.9 million pounds delivered during March. However, January-April 1981 shipments of 152.5 million pounds were 10% below the 169.2 million pounds shipped during the first four months of 1980.

NON-CELLULOSIC STOCKS DECLINE 7½%

Stocks of non-cellulosic fibers (except saran and spandex) as of April 30th totaled 563.4, 7½% less than the level of 610.7 million pounds on March 31st. Assuming a 30-day month, end-of-April stocks represented a 22-day supply as compared with the end-of-March supply of 26 days.

On a by-fiber basis, the number of days supply on hand as of April 30th was: nylon yarn 23; polyester yarn 18; olefin yarn 33; nylon staple 13; acrylic+modacrylic staple 31; polyester staple 22; and olefin+vinyon staple 39.

APRIL ORGANON CORRECTION

On page 55 of the April ORGANON, the following changes should be made to the 1980 exports of man-made fibers in Thousand Dollars:

ITEM	WAS	TO BE
Acetate - Other Rayon - High Tenacity - Other	28155	28135
Subtotal R+A Yarn	32133	32113
Nylon Textured Yarn	19723	72940
Subtotal NC Yarn	435334	488551
TOTAL MAN-MADE ABOVE	1099492	1152689
GRAND TOTAL ABOVE	1153761	1206958

U.S. COTTON CROP

The USDA has recently released its final report on the 1980 (season 1980-1981) domestic cotton crop, putting it at 11,122,100 bales of 480 pounds net weight. Relative to the initial August first forecast, the final crop turned out to be 1,690,200 bales smaller. The 1980 crop was 3,507,200 bales, or 24% smaller than last year's 14,629,300 bales and 629,300 bales less than the average

CONTENTS

Monthly Review 65
- April Organon Correction 66
- U.S. Cotton Crop 66
- 1981 Cotton Plantings 67
- Two Book Reviews 77

Quarterly Man-Made Review

- Non-Cellulosic 67
- Rayon & Acetate 67
- Textile Glass Fiber 70
- Shipments by Primary Trade 70-71

Broad Weaving Industry Data

- Yarn Consumed in Broad Weaving 72
- Broad Woven Fabric Production 73-75

Exports of Man-Made Fiber 74
Import-Export Review 76
Imports by Country of Origin 78
Imports for Consumption 79

Selected Textile Fiber Data 80

Textile ORGANON

CHARLES A. WHITEHEAD, *EDITOR*
MICHAEL R. KEMP, *ASSOCIATE EDITOR*
DOROTHY A. DRISCOLL, *CIRCULATION MGR.*
PUBLISHED BY
TEXTILE ECONOMICS BUREAU, INC.
489 FIFTH AVE., NEW YORK, N. Y. 10017

An arrangement of authentic market data, especially important to the United States Man-Made Fiber Industry, published monthly in the interest of good business.

Copyright 1981 by Textile Economics Bureau, Inc. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription rates as of January 1979 (payable in U.S. dollars or equivalent, with order):

	U.S.A.	OTHER
Annually	$100.00	$150.00
Single Issues		
June	10.00	15.00
November	10.00	15.00
All Others	8.00	12.00

All U.S. issues will be sent by first class mail and those to all other countries by airmail.

output of 11,751,400 bales for the preceding 5-year period (1975-1979).

The final report also shows that of the 14,533,800 acres planted, 1,319,000 acres, or 9%, had been abandoned, resulting in a harvested acreage of 13,214,800 acres. This compares with the acreage planted to the 1979 crop of 13,947,500 acres, abandonment of 1,116,600 acres, or 8%, and a harvested acreage of 12,830,900 acres. The harvest acreage for the preceding five years has averaged 11,638,600 acres. The yield of 404 pounds per acre in 1980 compares with 547 pounds per acre last year and an average yield of 481 pounds per acre over the past five years.

1981 COTTON CROP PLANTINGS

As of March first, the USDA reported that domestic cotton growers intended to plant 14,483,800 acres of cotton for the 1981 (1981-1982) crop year. This compares to the 14,533,800 acres planted to the 1980 crop.

If the abandonment rate approximated the average of the past five years, or some 7¼%, then the harvested acreage would be some 13,433,700 acres. This would yield a crop of some 13.2 million bales at the average yield of the past five years (471 pounds per acre). If the yield were equal to the low of the past five years (404 pounds per acre in 1980), then the crop would be 11.3 million bales. If the yield were equal to the high of the past five years (547 pounds per acre in 1979), then the crop would be 15.3 million bales.

MAN-MADE FIBER OUTPUT DECLINED 2½% IN FIRST QUARTER

Production of man-made fibers (except rayon, saran & spandex yarn and acetate staple) totaled 2,476.8 million pounds in the latest quarter, a decline of 2½% from the 2,534.0 million pounds produced during the fourth quarter of 1980 and 3½% less than that produced during the first quarter of 1980.

First quarter 1981 production comprised 61.4 million pounds acetate yarn+monofilaments, 116.3 million pounds rayon staple+tow, 979.2 million pounds non-cellulosic yarn+monofilaments (except saran and spandex), 1,083.0 million pounds non-cellulosic staple+tow+fiberfill and 236.9 million pounds of textile glass fiber.

Deliveries of man-made fibers (except rayon, saran & spandex yarn and acetate staple) totaled 2,438.2 million pounds in the January-March 1981 quarter, 6½% less than the 2,608.3 million pounds shipped the previous quarter and 5½% less than deliveries during the corresponding 1980 period.

NON-CELLULOSIC YARN+MONOFILAMENT PRODUCTION OFF 2% IN LATEST QUARTER

Production of non-cellulosic yarn+monofilaments (except saran and spandex) in the first quarter of 1981 fell 2%, to 979.2 million pounds, from fourth quarter 1980 output of 1,001.5 million pounds. Compared with a year ago, production in the January-March 1981 quarter was 3½% less than the 1,017.4 million pounds produced in the first quarter of 1980.

Deliveries of non-cellulosic yarn+monofilaments (except saran and spandex) totaled 975.9 million pounds during the first quarter of 1981, 5% below the 1,024.9 million pounds shipped during fourth quarter 1980 and 4% below the level of the corresponding 1980 quarter.

PRODUCTION OF NON-CELLULOSIC STAPLE+TOW DECLINED 5½% LAST QUARTER

January-March 1981 output of non-cellulosic staple +tow+fiberfill totaled 1,083.0 million pounds, a decline of 5½% from the 1,143.9 million pounds produced during the fourth quarter of 1980. First quarter 1981 production was 2% below the 1,105.4 million pounds produced during the corresponding 1980 period.

Shipments of non-cellulosic staple+tow+fiberfill during the first quarter of 1981 fell by 8%, to 1,051.9 million pounds, from the 1,142.3 million pounds shipped during the October-December quarter last year. January-March 1981 shipments were 2% below the 1,071.1 million pounds shipped during the first quarter of 1980.

ACETATE YARN PRODUCTION DECLINED 11% IN FIRST QUARTER

Acetate yarn production totaled 61.4 million pounds in the January-March 1981 quarter, 11% less than the 68.9 million pounds produced during the previous quarter and 23% less than that produced during the corresponding 1980 quarter.

Shipments of acetate yarn totaled 64.0 million pounds during the first quarter of 1981, a decline of 6% from fourth quarter 1980 levels. Compared to first quarter 1980, deliveries declined 21% in this latest quarter.

PRODUCTION OF RAYON STAPLE+TOW INCREASED 14% IN FIRST QUARTER

First quarter 1981 production of rayon staple+tow, at 116.3 million pounds, increased 14% from the fourth quarter 1980 level of 102.0 million pounds. However, first quarter 1981 output was 8½% less than the 126.9 million

QUARTERLY MAN-MADE FIBER DATA

MILLION POUNDS

ITEM	1979					1980					1981				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
								YARN+MONOFILAMENTS[a]							
ACETATE															
PRODUCTION	78.2	78.4	78.8	81.2	316.6	80.0	82.1	77.5	68.9	308.5	61.4				
SHIPMENTS - DOMESTIC	71.8	72.2	72.0	72.4	288.4	72.9	71.9	64.7	59.7	269.2	53.4				
- EXPORT	9.4	7.3	6.7	8.4	31.8	7.8	8.7	7.7	8.5	32.7	10.6				
- TOTAL	81.2	79.5	78.7	80.8	320.2	80.7	80.6	72.4	68.2	301.9	64.0				
ENDING STOCK	12.4	11.3	11.4	11.8		11.1	12.6	17.7	18.4		15.8				
NYLON+ARAMID															
PRODUCTION	442.5	440.9	439.0	459.2	1781.6	453.1	398.3	331.9	447.8	1631.1	435.1				
SHIPMENTS - DOMESTIC	405.3	424.0	400.1	401.9	1631.3	416.0	350.9	347.7	424.3	1538.9	380.5				
- EXPORT	35.1	34.9	37.1	39.3	146.4	35.2	34.0	38.8	40.0	148.0	40.3				
- TOTAL	440.4	458.9	437.2	441.2	1777.7	451.2	384.9	386.5	464.3	1686.9	420.8				
ENDING STOCK	158.6	140.6	142.4	160.4		162.3	175.7	121.1	104.6		118.9				
OLEFIN[b]															
PRODUCTION	155.1	161.4	157.0	165.6	639.1	168.1	152.8	146.8	164.5	632.2	163.9				
SHIPMENTS - DOMESTIC	150.6	160.3	154.0	159.3	624.2	156.9	143.9	147.3	163.6	611.7	164.3				
- EXPORT	5.6	4.6	5.4	5.5	21.1	6.2	5.3	4.4	4.8	20.7	4.9				
- TOTAL	156.2	164.9	159.4	164.8	645.3	163.1	149.2	151.7	168.4	632.4	169.2				
ENDING STOCK	72.2	68.7	66.3	67.1		72.1	75.7	70.8	66.9		61.6				
POLYESTER															
PRODUCTION	459.6	457.3	399.9	398.8	1715.6	396.2	338.7	337.9	389.2	1462.0	380.2				
SHIPMENTS - DOMESTIC	406.1	402.8	352.0	364.2	1525.1	369.2	310.7	320.4	363.1	1363.4	355.6				
- EXPORT	31.6	35.6	44.4	40.2	151.8	34.4	41.0	28.6	29.1	133.1	30.3				
- TOTAL	437.7	438.4	396.4	404.4	1676.9	403.6	351.7	349.0	392.2	1496.5	385.9				
ENDING STOCK	135.5	154.4	157.9	152.3		144.9	131.9	120.8	117.8		112.1				
TOTAL NON-CELLULOSIC ABOVE															
PRODUCTION	1057.2	1059.6	995.9	1023.6	4136.3	1017.4	889.8	816.6	1001.5	3725.3	979.2				
SHIPMENTS - DOMESTIC	962.0	987.1	906.1	925.4	3780.6	942.1	805.5	815.4	951.0	3514.0	900.4				
- EXPORT	72.3	75.1	86.9	85.0	319.3	75.8	80.3	71.8	73.9	301.8	75.5				
- TOTAL	1034.3	1062.2	993.0	1010.4	4099.9	1017.9	885.8	887.2	1024.9	3815.8	975.9				
ENDING STOCK	366.3	363.7	366.6	379.8		379.3	383.3	312.7	289.3		292.6				
DOMESTIC SHIPMENTS	962.0	987.1	906.1	925.4	3780.6	942.1	805.5	815.4	951.0	3514.0	900.4				
IMPORTS - TEXTURED YARN[c]	1.1	1.0	1.4	0.9	4.4	0.6	0.9	1.9	1.7	5.1	1.4				
- OTHER YARN[c]	5.2	4.5	3.0	2.6	15.3	3.1	3.7	3.0	2.3	12.1	2.2				
- MONOFILAMENTS	0.5	0.5	0.5	0.9	2.4	1.4	1.3	0.8	0.5	4.0	0.5				
TOTAL IMPORTS	6.8	6.0	4.9	4.4	22.1	5.1	5.9	5.7	4.5	21.2	4.1				
TOTAL AVAILABLE	968.8	993.1	911.0	929.8	3802.7	947.2	811.4	821.1	955.5	3535.2	904.5				
								TEXTILE GLASS FIBER							
PRODUCTION	232.1	278.8	263.7	239.8	1014.4	242.3	224.0	183.3	217.7	867.3	236.9				
SHIPMENTS - DOMESTIC	228.0	260.3	207.1	216.8	912.2	249.7	181.2	182.4	253.8	867.1	222.4				
- EXPORT	9.2	11.5	13.5	14.1	48.3	15.2	13.8	10.1	9.5	48.6	9.8				
- TOTAL	237.2	271.8	220.6	230.9	960.5	264.9	195.0	192.5	263.3	915.7	232.2				
ENDING STOCK	93.5	100.5	143.6	152.5		129.9	158.9	149.7	104.1		108.8				
IMPORTS	2.4	3.3	2.7	2.0	10.4	2.0	2.0	1.7	1.6	7.3	2.6				
TOTAL AVAILABLE	230.4	263.6	209.8	218.8	922.6	251.7	183.2	184.1	255.4	874.4	225.0				

FOOTNOTES FOR TABLE ABOVE & OPPOSITE

"Imports" are imports for consumption, as reported by the U.S. Census Bureau.

a. Data for rayon and "Other" non-cellulosic yarns (chiefly saran & spandex) are available annually only; see pages 20 & 21 of the February ORGANON for further details on these yarns.

b. Olefin Yarn+Monofilament data also include film fiber as well as spunbonded polypropylene.

c. Yarn imports include singles and plied.

d. Acetate staple+tow data are available annually only; see pages 20 & 21 herewith for further details.

e. These figures are composites of the nylon, acrylic+modacrylic, polyester and olefin staple imports, i.e., Commodity Numbers 309.4338, .4342, .4345 & .4346.

---

pounds produced during the corresponding 1980 period.

Shipments of rayon staple+tow during the January-March 1981 quarter were 114.2 million pounds, an increase of 4% over the 109.6 million pounds delivered in the fourth quarter of 1980. Compared with first quarter 1980 shipments of 128.2 million pounds, shipments of rayon staple+tow during the January-March 1981 quarter declined 11%.

QUARTERLY MAN-MADE FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1979					1980					1981				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
								STAPLE+TOW[d]							
RAYON															
PRODUCTION	142.7	142.7	128.1	135.9	549.4	126.9	113.4	101.0	102.0	443.3	116.3				
SHIPMENTS - DOMESTIC	117.6	110.3	105.9	108.6	442.4	114.2	92.6	87.3	96.6	390.7	100.2				
- EXPORT	26.3	22.5	27.8	23.5	100.1	14.0	17.8	16.2	13.0	61.0	14.0				
- TOTAL	143.9	132.8	133.7	132.1	542.5	128.2	110.4	103.5	109.6	451.7	114.2				
ENDING STOCK	27.5	37.4	31.8	35.6		34.3	37.3	34.8	27.2		29.3				
DOMESTIC SHIPMENTS	117.6	110.3	105.9	108.6	442.4	114.2	92.6	87.3	96.6	390.7	100.2				
IMPORTS FOR CONSUMPTION															
STAPLE	6.3	4.3	2.0	1.3	13.9	1.4	1.3	2.4	2.9	8.0	3.6				
GROUPED FILAMENTS	0.5	0.9	0.7	0.5	2.6	0.7	0.7	0.3	0.6	2.3	0.4				
TOTAL IMPORTS	6.8	5.2	2.7	1.8	16.5	2.1	2.0	2.7	3.5	10.3	4.0				
TOTAL AVAILABLE	124.4	115.5	108.6	110.4	458.9	116.3	94.6	90.0	100.1	401.0	104.2				
NYLON+ARAMID															
PRODUCTION	233.4	236.9	233.6	234.9	938.8	214.0	128.3	161.2	223.1	726.6	214.9				
SHIPMENTS - DOMESTIC	230.1	235.9	227.8	219.4	913.2	171.9	133.2	187.6	218.5	711.2	204.8				
- EXPORT	7.2	7.4	8.4	8.3	31.3	8.8	6.1	7.7	9.3	31.9	7.3				
- TOTAL	237.3	243.3	236.2	227.7	944.5	180.7	139.3	195.3	227.8	743.1	212.1				
ENDING STOCK	52.8	46.4	43.8	51.0		84.3	73.3	39.2	34.5		37.3				
IMPORTS	0.8	0.4	0.7	0.5	2.4	0.3	0.5	0.3	0.6	1.7	4.9				
TOTAL AVAILABLE	230.9	236.3	228.5	219.9	915.6	172.2	133.7	187.9	219.1	712.9	209.7				
ACRYLIC+MODACRYLIC															
PRODUCTION	187.3	192.4	184.2	197.2	761.1	206.4	197.7	182.1	193.0	779.2	190.8				
SHIPMENTS - DOMESTIC	134.7	146.3	125.6	140.0	546.6	161.6	155.7	124.9	143.1	585.3	130.2				
- EXPORT	52.2	56.3	61.0	54.1	223.6	50.6	43.9	47.1	44.2	185.8	55.1				
- TOTAL	186.9	202.6	186.6	194.1	770.2	212.2	199.6	172.0	187.3	771.1	185.3				
ENDING STOCK	70.2	60.0	57.6	60.7		54.9	53.0	63.1	68.8		74.3				
IMPORTS	2.8	4.3	3.5	2.4	13.0	3.4	4.3	2.6	3.0	13.3	3.6				
TOTAL AVAILABLE	137.5	150.6	129.1	142.4	559.6	165.0	160.0	127.5	146.1	598.6	133.8				
OLEFIN+VINYON															
PRODUCTION	29.1	32.3	28.2	30.6	120.2	30.7	30.3	26.5	28.2	115.7	31.3				
SHIPMENTS - DOMESTIC	30.1	31.4	28.0	29.8	119.3	28.9	26.3	27.0	32.8	115.0	31.9				
- EXPORT	0.1	0.3	1.4	1.7	3.5	1.4	0.5	1.0	0.8	3.7	0.4				
- TOTAL	30.2	31.7	29.4	31.5	122.8	30.3	26.8	28.0	33.6	118.7	32.3				
ENDING STOCK	21.7	22.3	21.1	20.2		20.6	24.1	22.6	17.2		16.2				
POLYESTER															
PRODUCTION	606.6	605.5	618.2	631.9	2462.2	654.3	583.2	589.6	699.6	2526.7	646.0				
SHIPMENTS - DOMESTIC	537.6	543.4	522.8	530.6	2134.4	563.1	483.8	466.8	557.3	2071.0	493.2				
- EXPORT	85.1	59.8	82.2	107.7	334.8	84.8	111.1	136.2	136.3	468.4	129.0				
- TOTAL	622.7	603.2	605.0	638.3	2469.2	647.9	594.9	603.0	693.6	2539.4	622.2				
ENDING STOCK	170.1	172.4	185.6	179.2		185.6	173.9	160.5	166.5		190.3				
IMPORTS	0.8	1.1	0.5	0.7	3.1	0.4	0.3	0.3	0.3	1.3	0.5				
TOTAL AVAILABLE	538.4	544.5	523.3	531.3	2137.5	563.5	484.1	467.1	557.6	2072.3	493.7				
TOTAL NON-CELLULOSIC															
PRODUCTION	1056.4	1067.1	1064.2	1094.6	4282.3	1105.4	939.5	959.4	1143.9	4148.2	1083.0				
SHIPMENTS - DOMESTIC	932.5	957.0	904.2	919.8	3713.5	925.5	799.0	806.3	951.7	3482.5	860.1				
- EXPORT	144.6	123.8	153.0	171.8	593.2	145.6	161.6	192.0	190.6	689.8	191.8				
- TOTAL	1077.1	1080.8	1057.2	1091.6	4306.7	1071.1	960.6	998.3	1142.3	4172.3	1051.9				
ENDING STOCK	314.8	301.1	308.1	311.1		345.4	324.3	285.4	287.0		318.1				
DOMESTIC SHIPMENTS	932.5	957.0	904.2	919.8	3713.5	925.5	799.0	806.3	951.7	3482.5	860.1				
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE[e]	4.4	5.8	4.7	3.6	18.5	4.1	5.2	3.3	3.9	16.5	9.0				
OTHER N.C. STAPLE	4.2	3.8	3.9	3.9	15.8	3.9	3.4	3.1	4.2	14.6	2.4				
GROUPED FILAMENTS	1.0	1.3	1.3	1.4	5.0	1.6	1.3	0.6	1.0	4.5	1.3				
TOTAL IMPORTS	9.6	10.9	9.9	8.9	39.3	9.6	9.9	7.0	9.1	35.6	12.7				
TOTAL AVAILABLE	942.1	967.9	914.1	928.7	3752.8	935.1	808.9	813.3	960.8	3518.1	872.8				

5

FILAMENT YARN DOMESTIC SHIPMENTS[a]

MILLION POUNDS

		ANNUAL DATA				QUARTERLY DATA							
						1980				1981			
ITEM		1977	1978	1979	1980	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
		(A) ACETATE		(N) NYLON+ARAMID		(P) POLYESTER		(O) OLEFIN					
HOSIERY[b]	N	88.8	99.0	106.3	106.3	27.2	26.7	25.3	27.1	27.2			
OTHER CIRCULAR KNIT[c]	N	68.9	65.5	58.9	56.6	14.3	13.0	13.2	16.1	12.3			
	P	738.7	635.5	615.4	495.7	145.8	108.7	114.4	126.8	93.7			
	A	1.6	1.9	4.5	3.2	1.0	0.8	0.7	0.7	0.7			
FLAT KNIT	A	124.2	138.3	146.9	144.9	37.4	40.0	35.9	31.6	26.7			
	N	165.6	196.1	202.6	176.3	50.3	42.3	35.2	48.5	43.3			
	P	85.9	81.7	89.0	83.8	23.2	17.7	19.8	23.1	23.4			
CARPET FACE	N	617.8	677.8	732.5	714.5	183.5	157.5	169.3	204.2	184.0			
	O	67.0	78.9	85.3	89.5	24.3	20.9	20.4	23.9	21.5			
CARPET BACKING[d]	O	196.4	213.7	220.7	197.8	52.5	44.4	49.7	51.2	52.7			
OTHER BROAD WOVEN[e]	A	126.2	125.9	129.2	110.5	32.7	27.4	25.6	24.8	23.9			
	N	87.7	95.0	102.7	94.3	26.9	25.9	18.7	22.8	21.4			
	P	315.9	411.5	387.2	405.5	102.9	97.1	96.6	108.9	104.0			
	O	162.9	158.7	171.4	186.3	42.6	43.3	47.1	53.3	53.5			
NARROW WOVEN[f]	A	5.9	7.0	5.9	8.7	1.5	3.2	2.0	2.0	1.6			
	N	38.0	40.6	37.2	31.4	9.3	7.3	7.6	7.2	9.7			
	P	24.0	29.1	30.5	28.1	8.1	5.6	7.4	7.0	6.4			
	O	10.3	11.1	11.8	12.3	3.2	3.0	3.1	3.0	3.2			
TIRES, INCL. CHAFER	N	244.1	267.6	285.3	209.2	69.4	40.2	45.1	54.5	51.8			
	P	258.0	253.4	227.4	161.0	45.6	31.2	37.0	47.2	43.3			
OTHER RUBBER INDUSTRY[c]	N	22.5	25.7	28.7	22.3	6.1	4.9	4.8	6.5	6.9			
	P	30.1	32.0	35.8	30.2	10.0	6.1	6.7	7.4	7.4			
ROPE, CORDAGE & FISHLINE	N	28.1	33.4	38.2	33.0	9.6	7.6	7.7	8.1	8.2			
	P	10.4	10.6	13.6	13.1	3.0	3.6	3.0	3.5	4.6			
	O	74.4	82.4	95.3	84.4	20.7	23.4	18.8	21.5	28.5			
ALL OTHER[g]	A	1.5	1.5	1.9	1.9	0.3	0.5	0.5	0.6	0.5			
	N	34.7	38.4	38.9	95.0	19.4	25.5	20.8	29.3	15.7			
	P	47.6	53.8	126.2	146.0	30.6	40.7	35.5	39.2	72.8			
	O	28.6	34.9	39.7	41.4	13.6	8.9	8.2	10.7	4.9			
TOTAL DOMESTIC ABOVE	A	259.4	274.6	288.4	269.2	72.9	71.9	64.7	59.7	53.4			
	N	1396.2	1539.1	1631.3	1538.9	416.0	350.9	347.7	424.3	380.5			
	P	1510.6	1507.6	1525.1	1363.4	369.2	310.7	320.4	363.1	355.6			
	O	539.6	579.7	624.2	611.7	156.9	143.9	147.3	163.6	164.3			
TOTAL DOMESTIC ABOVE		**3705.8**	**3901.0**	**4069.0**	**3783.2**	**1015.0**	**877.4**	**880.1**	**1010.7**	**953.8**			
ALSO DIVIDED AS													
APPAREL		1634.4	1671.2	1604.5	1530.4	407.9	354.3	365.1	403.1	375.7			
HOME FURNISHINGS		1090.5	1171.9	1274.6	1212.7	318.6	274.0	285.5	334.6	308.9			
INDUSTRIAL		980.9	1057.9	1189.9	1040.1	288.5	249.1	229.5	273.0	269.2			
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET)[h]													
ACETATE		1.0	1.3	+	0	0	0	0	0	0			
NYLON		158.5	161.6	166.8	167.4	40.4	41.6	39.4	46.0	39.0			
POLYESTER		1043.1	1018.7	1015.3	942.0	249.1	216.4	225.0	251.5	248.3			
OLEFIN		53.8	52.3	46.5	40.9	11.0	9.0	8.1	12.8	9.7			

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small poundages of polyester are included in All Other

c. Small poundages of olefin are included in All Other.

d. Small poundages of nylon and polyester are included in All Other.

e. Other Broad Woven—except carpets, tire fabric, flat belting, etc. The olefin poundages include other home furnishings applications only, i.e., industrial applications are in All Other.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. All Other includes sewing thread and other industrial applications. The olefin poundages include sliver knit backing. Also includes Indirect Exports starting 1st Quarter 1980.

h. These poundages are included in the total domestic area above.

TEXTILE GLASS PRODUCTION INCREASED 9% IN FIRST QUARTER

Output of textile glass fiber in the first quarter of 1981 totaled 236.9 million pounds, an increase of 9% over the 217.7 million pounds produced during the previous quarter. However, first quarter 1981 production was 2% below the 242.3 million pounds produced during the corresponding 1980 period.

Deliveries of textile glass fiber during the latest

STAPLE & TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1980				1981			
ITEM		1977	1978	1979	1980	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
(R) RAYON		(N) NYLON+ARAMID		(A) ACRYLIC+MODACRYLIC			(P) POLYESTER		(O) OLEFIN				
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	262.3	241.8	238.8	275.7	75.8	71.9	56.2	71.8	63.9			
	NPR	15.0	24.7	21.3	11.6	4.1	3.3	1.9	2.3	4.2			
PILE FABRICS[b]	A	87.6	82.4	65.1	60.4	17.5	18.7	11.7	12.5	15.7			
	P	25.4	15.1	17.8	19.7	6.4	4.9	4.1	4.3	4.0			
OTHER CIRCULAR+FLAT KNIT[c]	R	11.6	10.8	11.7	9.8	3.8	1.8	2.4	1.8	1.9			
	A	111.8	93.1	98.8	125.0	34.8	35.1	27.1	28.0	24.1			
	P	204.5	223.7	278.1	298.4	82.9	70.2	64.3	81.0	76.8			
BLANKETS[b]	A	50.2	55.2	45.5	42.2	10.7	11.0	11.9	8.6	6.4			
	P	15.6	14.9	13.2	17.7	4.2	4.4	4.5	4.6	3.2			
OTHER BROAD WOVEN	R	223.0	245.9	233.2	201.6	57.0	43.7	48.0	52.9	57.5			
	N	55.4	52.6	59.2	53.0	15.6	9.9	10.2	17.3	12.4			
	A	27.2	28.6	42.1	42.3	11.3	10.3	9.1	11.6	9.5			
	P	1105.8	1114.7	1171.0	1204.1	324.1	287.2	268.5	324.3	268.4			
	O	7.3	10.6	17.0	17.3	4.0	4.3	3.7	5.3	5.6			
CARPET FACE YARNS	R	0.1	+	+	+	+	+	+	+	+			
	N	715.0	798.5	828.0	631.5	149.4	115.8	171.3	195.0	185.7			
	A	72.7	62.8	48.1		Included in All Other							
	P	205.3	200.8	192.4	119.9	32.2	25.1	23.9	38.7	27.0			
	O	38.7	46.0	64.7	61.6	14.9	14.7	14.6	17.4	16.1			
FIBERFILL[d]	P	176.8	198.2	239.6	205.1	55.5	44.6	52.7	52.3	57.1			
FLOCK	NP	5.7	8.2	10.7	10.8	3.4	2.5	2.1	2.8	3.8			
	R	6.4	4.7	5.1	5.1	1.2	1.4	1.1	1.4	0.9			
NONWOVENS[e,f]	R	174.3	166.2	160.3	147.3	45.1	39.0	29.6	33.6	32.7			
	N	4.1	4.3	3.8	3.2	0.9	0.7	0.8	0.8	1.1			
	P	57.4	98.5	153.6	150.3	38.9	34.8	38.3	38.3	36.1			
	VINYON+O	30.6	28.6	36.7	34.6	9.4	7.1	8.4	9.7	9.8			
ALL OTHER	R	26.1	29.5	30.9	26.2	7.0	6.6	6.1	6.5	6.7			
	N	9.1	11.1	10.8	12.2	2.6	4.1	2.9	2.6	2.3			
	A	8.0	7.7	8.2	39.7	11.5	8.7	8.9	10.6	10.6			
	P	80.3	80.7	49.3	45.4	14.9	9.6	9.0	11.9	16.4			
	VINYON+O	4.7	4.8	0.9	1.5	0.6	0.2	0.3	0.4	0.4			
TOTAL DOMESTIC ABOVE	R	444.9	459.2	442.4	390.7	114.2	92.6	87.3	96.6	100.2			
	N	791.7	876.4	913.2	711.2	171.9	133.2	187.6	218.5	204.8			
	A	619.8	571.6	546.6	585.3	161.6	155.7	124.9	143.1	130.2			
	P	1880.3	1967.5	2134.4	2071.0	563.1	483.8	466.8	557.3	493.2			
	VINYON+O	81.3	90.0	119.3	115.0	28.9	26.3	27.0	32.8	31.9			
TOTAL DOMESTIC ABOVE		**3818.0**	**3964.7**	**4155.9**	**3873.2**	**1039.7**	**891.6**	**893.6**	**1048.3**	**960.3**			
ALSO DIVIDED AS													
APPAREL		1551.7	1493.4	1548.6	1664.4	460.7	409.1	363.3	431.3	373.8			
HOME FURNISHINGS		1602.2	1714.8	1759.1	1474.2	375.1	311.9	358.4	428.8	395.6			
INDUSTRIAL		664.1	756.5	848.2	734.6	203.9	170.6	171.9	188.2	190.9			

a. Olefin poundages are included in All Other.
b. Rayon and nylon poundages are included in All Other.
c. Nylon poundages are included in All Other.
d. Rayon and acrylic poundages are included in All Other.
e. Wet & dry laid and needled batts only.
f. Acrylic poundages are included in All Other.

quarter totaled 232.2 million pounds, 12% below shipments of the fourth quarter of 1980 and also first quarter 1980.

FILAMENT YARN SHIPMENTS BY TRADE OR END USE

The table on page 70 details domestic filament yarn shipments by primary trade or end use for the most recent periods.

A comparison of first quarter 1981 shipments with those of fourth quarter 1980 shows that only polyester shipments to the flat knit trades, olefin shipments for carpet backing and other broad woven trades, nylon shipments to the narrow woven trades and nylon, polyester+olefin shipments for rope, cordage & fishlines increased.

The biggest declines were in shipments to the knit trades, particularly circular knit. Shipments of nylon to the circular knit trades declined 24% to 12.3 million pounds and polyester shipments fell by 26% to 93.7 million pounds. Acetate shipments to circular knits were unchanged at 0.7 million pounds. Deliveries of

YARN CONSUMED IN BROAD WOVEN FABRIC MILLS[a]

MILLION POUNDS

YARN	1979					1980					1981	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% FILAMENT												
RAYON, ACETATE & TRIACETATE	29.4	26.8	22.4	25.6	104.2	25.9	26.0	20.9	21.7	94.5		
NYLON	106.8	98.7	87.4	100.3	393.2	97.7	76.9	74.8	85.5	334.9		
POLYESTER	127.0	119.5	102.5	107.2	456.2	98.0	83.2	88.2	106.3	375.7		
TEXTILE GLASS	42.3	41.8	39.6	42.9	166.6	53.9	40.7	35.3	37.5	167.4		
OLEFIN & SARAN	65.5	67.9	66.0	94.1	293.5	74.0	67.9	74.0	112.0	335.3		
ALL OTHER	4.7	4.5	4.4	4.3	17.9	4.6	2.8					
TOTAL FILAMENT YARN ABOVE	**375.7**	**359.2**	**322.3**	**374.4**	**1431.6**	**354.1**	**297.5**	**293.2**	**363.0**	**1307.8**		
SPUN YARN												
100% COTTON	375.3	361.0	335.1	343.3	1414.7	364.8	348.5	311.7	332.1	1357.1		
100% WOOL	11.5	10.0	6.7	6.8	35.0	9.1	9.6	6.0	8.0	32.7		
100% ACRYLIC	6.2	6.6	4.8	5.4	23.0	6.7	8.0	7.4	8.1	30.2		
100% POLYESTER	51.0	49.1	44.6	43.1	187.8	43.3	35.1	30.9	32.5	141.8		
RAYON AND/OR ACETATE[b]	36.3	35.4	30.4	29.8	131.9	29.7	22.0	21.3	21.9	94.9		
POLYESTER/COTTON BLENDS[c]	310.3	311.0	296.5	324.2	1242.0	359.6	355.5	324.3	337.2	1376.6		
POLYESTER/WOOL BLENDS[c]	6.6	6.1	5.3	5.7	23.7	5.1	6.0	5.5	5.5	22.1		
POLYESTER/RAYON BLENDS[c]	32.9	32.6	29.3	31.3	126.1	32.8	36.2	34.1	39.7	142.8		
TOTAL SPUN YARN ABOVE	**830.1**	**811.8**	**752.7**	**789.6**	**3184.2**	**851.1**	**820.9**	**741.2**	**785.0**	**3198.2**		
ALL OTHER YARNS[d]	**22.9**	**22.2**	**21.0**	**20.5**	**86.6**	**24.7**	**19.7**	**20.5**	**27.4**	**92.3**		
GRAND TOTAL	**1228.7**	**1193.2**	**1096.0**	**1184.5**	**4702.4**	**1229.9**	**1138.1**	**1054.9**	**1175.4**	**4598.3**		

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T.*

a. Includes data from all types of broad woven fabric mills, i.e., cotton, man-made, woolen & worsted and tire cord & fabric mills.

b. Includes 100% spun rayon and acetate as well as rayon and/or acetate/cotton blends regardless of blend level.

c. Regardless of blend level.

d. All Other Yarns includes spun nylon, other blends, silk and paper.

acetate to the flat knit trades declined 16% to 26.7 million pounds and nylon shipments fell by 11% to 43.3 million pounds. However, polyester flat knit shipments increased by 1½% to 23.4 million pounds.

Nylon carpet face yarn shipments declined 10% in the first quarter of 1981 to 184.0 million pounds from the 204.2 million pounds shipped during the fourth quarter of 1980. Similarly, olefin carpet face yarn deliveries were off 10% in the latest quarter. First quarter 1981 shipments of nylon tire cord fell 5% to 51.8 million pounds and polyester tire cord deliveries were 8½% less than the 47.2 million pounds shipped during the fourth quarter of 1980.

Shipments of feed and producer-textured (noncarpet) yarns during the latest quarter were below their fourth quarter 1980 totals. Nylon shipments fell 15% to 39.0 million pounds, polyester deliveries were 1½% less, at 248.3 million pounds, and olefin shipments declined 24% to 9.7 million pounds.

STAPLE+TOW SHIPMENTS BY TRADE OR END USE

The table on page 71 shows domestic shipments of staple+tow by primary trade or end use for the most recent periods.

Comparing first quarter 1981 with fourth quarter 1980 shows that acrylic+modacrylic pile fabrics, rayon broad woven, polyester fiberfill and olefin broad woven goods all recorded significant gains.

Shipments of acrylic+modacrylic to the sweater trades declined 11% to 63.9 million pounds whereas those of nylon, polyester and rayon increased 83% to 4.2 million pounds. Acrylic+modacrylic pile fabrics increased 26%, but polyester pile fabrics shipments declined 7%. Deliveries of polyester to the other knit trades declined 5% to 76.8 million pounds and shipments of acrylic+modacrylic fell by 14% to 24.1 million pounds.

Polyester shipments to the broad woven trades declined 17% to 268.4 million pounds. For nylon, the decline was 28% to 12.4 million pounds and for acrylic+modacrylic the decrease was 18% to 9.5 million pounds. However, rayon shipments to these trades increased 8½% to 57.5 million pounds.

Deliveries of nylon, polyester and olefin carpet face yarns all declined in the latest quarter as compared with the preceding quarter. For nylon, the decline was 5% to 185.7 million pounds, polyester shipments fell by 30% to 27.0 million pounds and olefin deliveries declined by 7½% to 16.1 million pounds.

Polyester fiberfill shipments increased 9% to 57.1

(Continued on page 74)

BROAD WOVEN GOODS AND TIRE CORD PRODUCTION

TYPE OF FABRIC	1979 1ST Q	1979 2ND Q	1979 3RD Q	1979 4TH Q	1979 YEAR	1980 1ST Q	1980 2ND Q	1980 3RD Q	1980 4TH Q	1980 YEAR	1981 1ST Q	1981 2ND Q
						MILLION LINEAR YARDS						
COTTON FABRICS	**1032.5**	**1018.1**	**931.5**	**943.4**	**3925.5**	**1020.9**	**968.2**	**812.9**	**916.8**	**3718.8**		
DUCK & ALLIED FABRICS	24.7	23.6	21.9	23.4	93.6	21.9	20.1	16.8	13.9	72.7		
SHEETING & ALLIED FABRICS	186.2	192.5	177.7	165.2	721.6	154.2	149.5	115.0	138.4	557.1		
PRINT CLOTH YARN FABRICS	390.4	376.2	328.1	327.6	1422.3	367.4	360.7	294.6	363.2	1385.9		
TOWELING, WASH- & DISHCLOTHS	133.0	128.7	118.9	125.2	505.8	130.6	123.4	111.6	129.5	495.1		
FINE COTTON FABRICS	24.1	24.4	22.6	26.1	97.2	24.5	21.9	20.7	12.5	79.6		
BLANKETS & BLANKETING	27.1	27.5	7.4	8.4	104.7	6.0	5.7	6.0	6.2	23.9		
OTHER NAPPED FABRICS			17.2	17.1		17.8	14.1	11.3	13.5	56.7		
DRAPERY & BEDSPREAD FABRICS	14.8	13.5	13.3	12.8	54.4	12.7	11.0	7.1	8.9	39.7		
CORDUROYS	70.5	70.2	69.0	75.3	285.0	86.9	78.4	65.4	61.9	292.6		
UPHOLSTERY, TAPESTRY & VELVETS	4.9	5.1	4.0	5.4	19.4	5.5	6.2	4.6	168.8			
CARDED COLORED YARN FABRICS	152.8	154.7	149.9	153.4	610.8	182.7	177.2	159.8		715.5		
ALL OTHER FABRICS	4.0	1.7	1.5	3.5	10.7	10.7						
WOOLEN & WORSTED FABRICS[a]	**33.5**	**31.3**	**24.6**	**26.2**	**115.6**	**33.6**	**33.9**	**22.1**	**25.2**	**114.8**		
MEN'S & BOYS' CLOTHING	14.7	13.7	10.3	13.2	51.9	19.2	18.2	11.7	13.4	62.5		
WOMEN'S & CHILDREN'S CLOTHING	13.9	13.8	11.0	9.8	48.5	11.3	13.2	9.5	10.0	44.0		
NONAPPAREL FABRICS	4.9	3.8	3.3	3.2	15.2	3.1	2.5	0.9	1.8	8.3		
MAN-MADE FABRICS	**1713.9**	**1681.6**	**1555.3**	**1656.5**	**6607.3**	**1779.0**	**1684.2**	**1588.5**	**1803.0**	**6854.7**		
100% FILAMENT YARN FABRICS												
100% RAYON	3.1	3.3	3.2	3.4	13.0	5.4	5.9	5.3	6.3	22.9		
COMBINATIONS, CHIEFLY ACETATE	8.2	8.6	9.3	9.3	35.4	9.0	9.0	8.4	9.9	36.3		
100% NYLON	112.0	106.5	102.1	104.6	425.2	113.0	105.0	87.0	96.2	401.2		
100% POLYESTER	150.5	146.7	135.8	144.5	577.5	146.4	154.8	142.4	161.1	604.7		
TEXTILE GLASS	87.2	82.8	80.0	88.2	338.2	101.1	85.3	70.8	76.0	333.2		
COMBINATIONS, CHIEFLY RAYON	91.1	86.9	232.6									
100% ACETATE				282.8	965.9	253.1	237.4	249.3	313.8	1053.6		
OTHER 100% FILAMENT	135.1	137.4										
COMBINATIONS, CHIEFLY POLYESTER	15.2	17.1	15.4	11.6	59.3	12.4	11.7	12.4	11.0	47.5		
100% SPUN YARN FABRICS & BLENDS												
100% RAYON & ACETATE	25.6	23.4	20.1	20.7	89.8	21.8	20.3	16.6	17.8	76.5		
RAYON & ACETATE BLENDS WITH OTHER FIBERS	59.9	63.4	60.8	64.5	248.6	58.9	57.3	55.9	64.4	236.5		
100% POLYESTER	43.2	40.2	34.8	33.2	151.4	34.0	30.7	31.5	31.6	127.8		
POLYESTER WITH COTTON	649.1	641.3	582.3	583.2	2455.9	673.1	658.2	606.8	665.7	2603.8		
POLYESTER WITH RAYON	113.2	112.4	90.6	91.1	407.3	110.4	103.5	100.2	114.4	428.5		
POLYESTER WITH WOOL	11.6	10.2	7.7	7.4	36.9	6.6	6.3	15.0[b]	15.5[b]	43.4		
POLYESTER WITH OTHER FIBERS	11.2	11.0	6.6	8.7	37.5	12.6	5.7	11.0	12.5	41.8		
ALL OTHER	14.6	13.2	11.2	13.2	52.2	13.9	13.3	12.3	15.5	55.0		
COMBINATIONS & MIXTURES[c]												
FILAMENT ACETATE WARP	12.9	13.6	12.6	11.8	50.9	12.0	12.9	14.9	24.1	63.9		
FILAMENT POLYESTER WARP	34.4	35.5	32.6	40.8	143.3	41.0	37.9	38.1	49.5	172.1		
OTHER FILAMENT WARP	7.9	4.7	3.2	5.9	21.7	3.4		0.9	1.3			
OTHER	43.5	42.3	41.5	55.7	183.0	65.4	48.3	41.4	51.8	206.9		
SPECIALTIES												
BLANKETING	17.3	16.0	16.2	16.3	67.8	16.3	17.1	9.3[d]	8.3[d]	51.0		
DRAPERY FABRICS[e]	36.6	32.8	31.6	32.2	133.2	39.6	37.9	37.0	30.5	145.0		
UPHOLSTERY & TAPESTRY	24.3	24.0	19.7	21.8	89.8	22.7	18.8	15.7	25.8	103.1		
OTHER SPECIALTY[f]	6.2	6.3	5.4	5.6	23.5	6.9	6.9	6.3				
TOTAL BROAD WOVEN FABRICS ABOVE	**2779.9**	**2731.0**	**2511.4**	**2626.1**	**10648.4**	**2833.5**	**2686.3**	**2423.5**	**2745.0**	**10688.3**		
						MILLION POUNDS						
TIRE CORD & TIRE FABRICS	**162.5**	**148.6**	**120.4**	**134.7**	**566.2**	**138.9**	**101.6**	**104.5**	**138.1**	**483.1**		
TIRE CORD & TIRE CORD FABRICS												
NYLON	78.3	70.9	63.1	80.3	292.6	75.0	56.5	56.1	71.6	259.2		
POLYESTER	60.6	54.4	40.6	38.9	194.5	45.3	29.9	33.2	46.7	155.1		
RAYON	6.7	7.2	4.8	5.1	23.8	6.1	5.3	8.0	12.1	40.6		
GLASS	7.6	6.1	4.5	3.4	21.6	5.1	4.0					
CHAFER & OTHER[g]	9.3	10.0	7.4	7.0	33.7	7.4	5.9	7.2	7.7	28.2		

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T.*

a. Felts are not included.

b. Includes polyester blanketing.

c. Includes filament & spun yarn fabrics.

d. Polyester blanketing is included with polyester/wool blend fabrics above.

e. Includes bedspread fabric (except glass).

f. 100% or chiefly man-made fibers; chief fiber not specified. Also includes small poundages of silk, tie, twisted paper yarn and girdle & swimwear fabrics.

g. Includes a nominal amount of cotton and some steel.

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION

MILLION LINEAR YARDS

TYPE OF FABRIC	1979					1980					1981	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% FILAMENT YARN FABRICS	**602.4**	**589.3**	**578.4**	**644.4**	**2414.5**	**640.4**	**609.1**	**575.5**	**674.3**	**2499.3**		
FILAMENT COMB., CHIEFLY ACETATE	8.2	8.6	9.3	9.3	35.4	9.0	9.0	8.3	9.9	36.2		
PLIED YARN FABRICS	2.0	2.5	2.2	1.8	8.5	2.5	2.8	8.3	9.9	36.2		
CREPES[8] & SATINS	6.2	6.1	7.1	6.0	26.9	5.4	5.2					
ALL OTHER				1.5		1.1	1.0					
100% FILAMENT RAYON	3.1	3.3	3.2	3.4	13.0	5.4	5.9	5.3	6.3	22.9		
TWILL	2.0	1.8	1.5	1.8	7.1	4.0	4.6	4.4	5.5	18.5		
TAFFETAS (PLAIN WEAVE)	0.6	0.7	0.7	0.8	2.8	0.6	1.3	0.9	0.8	4.4		
ALL OTHER[9]	0.5	0.8	1.0	0.8	3.1	0.8						
100% FILAMENT NYLON	112.0	106.5	102.1	104.6	425.2	113.0	105.0	87.0	96.2	401.2		
INDUSTRIAL TYPE	35.0	36.9	37.2	37.3	146.4	46.6	40.0	32.5	38.0	157.1		
ALL OTHER	77.0	69.6	64.9	67.3	278.8	66.4	65.0	54.5	58.2	244.1		
100% FILAMENT POLYESTER	150.5	146.7	135.8	144.5	577.5	146.4	154.8	142.4	161.1	604.7		
TEXTURED YARN FABRICS	113.0	95.7	89.7	93.6	392.0	87.1	97.8	90.2	100.3	375.4		
NONTEXTURED YARN FABRICS												
INDUSTRIAL TYPE	10.5	10.8	10.9	12.3	44.5	11.5	9.5	8.2	10.8	40.0		
MARQUISETTES, NINONS & OTHER SHEERS	27.0	40.2	35.2	38.6	141.0	47.8	47.5	34.8	39.9	189.3		
ALL OTHER								9.2	10.1			
GLASS FIBER	87.2	82.8	80.0	88.2	338.2	101.1	85.3	70.8	76.0	333.2		
HOUSEHOLD FABRICS	INCLUDED IN INDUSTRIAL FABRICS BELOW					INCLUDED IN INDUSTRIAL FABRICS BELOW						
INDUSTRIAL FABRICS												
WOVEN ROVING & SCREENING	10.4	9.0	7.1	7.3	33.8	7.5	7.2	5.4	4.6	24.7		
ALL OTHER	76.8	73.8	72.9	80.9	304.4	93.6	78.1	65.4	71.4	308.5		
FILAMENT COMB., CHIEFLY POLYESTER	15.2	17.1	15.4	11.6	59.3	12.4	11.7	12.4	11.0	47.5		
100% FILAMENT ACETATE	91.1	86.9	232.6	282.8	965.9	253.1	237.4	249.3	313.8	1053.6		
FILAMENT COMB., CHIEFLY RAYON												
OTHER 100% FILAMENT YARN FABRICS	135.1	137.4										
100% SPUN YARN & BLENDS	**945.7**	**933.1**	**830.3**	**838.3**	**3547.4**	**947.5**	**912.4**	**858.7**	**945.6**	**3664.2**		
100% SPUN RAYON AND/OR ACETATE												
EXCEPT BLANKETING	25.6	23.4	20.1	20.7	89.8	21.8	20.3	16.6	17.8	76.5		
TWILLS & SATINS	4.3	3.7	3.3	3.0	14.3	3.1	3.1	2.8	2.9	11.9		
ALL OTHER	21.3	19.7	16.8	17.7	75.5	18.7	17.2	13.8	14.9	64.6		
SPUN RAYON AND/OR ACETATE BLENDS												
EXCEPT BLANKETING	59.9	63.4	60.8	64.5	248.6	58.9	57.3	55.9	64.4	236.5		
WITH COTTON	53.4	52.6	48.5	52.1	206.6	58.9	57.3	55.9	64.4	236.5		
WITH OTHER FIBERS	6.5	10.8	12.3	12.4	42.0							
SPUN NYLON FABRICS	1.5	1.6	1.5	1.9	6.5	3.4	4.0	3.4	3.9	14.7		
100% SPUN POLYESTER												
EXCEPT BLANKETING	43.2	40.2	34.8	33.2	151.4	34.0	30.7	31.5	31.6	127.8		

See footnotes on opposite page.

(Continued from page 72)

million pounds and nylon+polyester flock shipments were 36% higher at 3.8 million pounds. Deliveries of rayon to the nonwovens trades fell by 2½% in the latest quarter, totaling 32.7 million pounds, and polyester shipments to nonwovens decreased 5½% to a first quarter 1981 level of 36.1 million pounds.

Drawing the yarn and staple data together, from pages 70 and 71, the distribution between apparel, home furnishings and industrial is as follows:

	1977	1978	1979	1980	1st Q 1981
Apparel	3186	3165	3153	3195	750
Home Furnishings	2693	2887	3034	2687	704
Industrial	1645	1814	2038	1774	460
Total	**7524**	**7866**	**8225**	**7656**	**1914**

FIRST QUARTER 1981 EXPORTS INCREASE 6%

The table on page 77 details U.S. man-made fiber exports as reported by the U.S. Census Bureau. These differ from the exports shown on pages 68 and 69 in that they are exports from all sources (not just fiber producers) and in timing. The exports on pages 68 and 69 are direct export shipments by the fiber producer and were shipped by the fiber producer during that quarter. These shipments, plus any from other sources such as yarn texturizers, throwsters, etc., are counted by the Census in the quarter they are shipped from a U.S. port, which may or may not coincide with the shipping quarter.

The U.S. Census Bureau reports that 363,619 thousand pounds of man-made fibers were exported

10

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION *(Continued)*

MILLION LINEAR YARDS

TYPE OF FABRIC	1979					1980					1981	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% SPUN YARN & BLENDS *(Continued)*												
SPUN POLYESTER BLENDS WITH COTTON EXCEPT BLANKETING	649.1	641.3	582.3	583.2	2455.9	673.1	658.2	606.8	665.7	2603.8		
BATISTE	34.8	42.5	39.0	37.5	153.8	48.5	43.4	43.8	48.2	183.9		
BED SHEETING	192.2	191.8	176.9	186.3	747.2	188.2	193.0	168.7	181.2	731.1		
BROAD CLOTH	87.1	80.8	63.7	68.3	299.9	81.2	66.8	60.3	63.4	271.7		
TWILLS, INCLUDING GABARDINE	53.2	52.8	52.1	47.0	205.1	59.4	55.2	52.3	60.0	226.9		
OXFORDS												
SHIRTING	4.7	4.5	4.0	3.4	16.6	4.5	4.7	4.7	8.5	22.4		
OTHER (INCLUDING HOPSACKS)	6.2	6.2	6.5	8.0	26.9	8.9	8.6	10.2	11.0	38.7		
POPLINS												
60% OR MORE SPUN POLYESTER	33.4	32.5	33.2	30.6	129.7	40.8	51.4	45.5	44.9	182.6		
LESS THAN 60% SPUN POLYESTER	6.1	5.6	4.1	2.1	17.9							
SATEENS	26.8	24.4	13.8	17.6	82.6	40.7	44.5	41.5	51.2	177.9		
VOILES	11.2	9.8	8.2	5.2	34.4							
CORDUROY	8.7	9.2	8.5	7.5	33.9							
PRINT CLOTH YARN FABRICS	97.3	100.1	100.3	92.3	390.0	114.1	109.2	103.4	111.7	438.4		
YARN DYED FABRICS[c]	40.8	44.0	39.4	42.5	166.7	53.8	50.4	47.1	45.7	197.0		
PIECE DYED PATTERNS	9.1	7.7	5.3	34.9	151.2	33.0	31.0	29.3	39.9	133.2		
ALL OTHER[d]	37.5	29.4	27.3									
SPUN POLYESTER BLENDS WITH RAYON EXCEPT BLANKETING	113.2	112.4	90.6	91.1	407.3	110.4	103.5	100.2	114.4	428.5		
60% OR MORE SPUN POLYESTER	23.4	28.8	27.0	25.7	104.9	110.4	103.5	100.2	114.4	428.5		
LESS THAN 60% SPUN POLYESTER	89.8	83.6	63.6	65.4	302.4							
SPUN POLYESTER BLANKETING	7.3	7.7	6.6	6.9	28.5	6.5	6.4	15.0	15.5	56.2		
SPUN POLYESTER BLENDS WITH WOOL EXCEPT BLANKETING	11.6	10.2	7.7	7.4	36.9	6.5	6.3					
SPUN POLYESTER WITH OTHER FIBERS EXCEPT BLANKETING	11.2	11.0	6.6	8.7	37.5	12.6	5.7	11.0	12.5	41.8		
SPUN ACRYLIC & MODACRYLIC BLANKETING	10.0	10.3	9.6	9.4	39.3	9.8	10.7	9.3	8.3	38.1		
OTHER SPUN ACRYLIC AND MODACRYLIC	4.0	2.7	1.3	2.4	10.4	2.4	2.7	3.1	3.2	11.4		
ALL OTHER 100% SPUN YARN & BLENDS	9.1	8.9	8.4	8.9	35.3	8.1	6.6	5.9	8.3	28.9		
COMBINATIONS & MIXTURES OF FILAMENT & SPUN YARNS	**98.7**	**96.1**	**89.9**	**114.2**	**398.9**	**121.8**	**99.1**	**95.3**	**126.7**	**442.9**		
FILAMENT ACETATE WARP	12.9	13.6	12.6	11.8	50.9	15.4	12.9	14.9	24.1	69.5		
FILAMENT RAYON WARP	7.9	4.7	3.2	5.9	21.7			0.9	1.3			
FILAMENT POLYESTER WARP	34.4	35.5	32.6	40.8	143.3	41.0	37.9	38.1	49.5	166.5		
ALL OTHER FILAMENT WARP FABRICS	INCLUDED IN RAYON WARP ABOVE					INCLUDED IN RAYON WARP ABOVE						
SPUN WARP & FILAMENT FILLING	32.8	30.9	31.4	43.5	138.6	51.6	35.0	41.4	51.8	206.9		
COMBINATION FILAMENT & SPUN WARP OR FILLING	10.7	11.4	10.1	12.2	44.4	13.8	13.3					
OTHER SPECIALTY FABRICS	**67.1**	**63.1**	**56.7**	**59.6**	**246.5**	**69.3**	**63.6**	**59.0**	**56.4**	**248.3**		
VELVETS & OTHER PILE FABRICS	3.0	3.2	2.8	3.0	12.2	3.7	3.8	3.4	3.6	14.5		
DRAPERY FABRICS[e]	36.6	32.8	31.6	32.2	133.2	39.6	37.9	37.0	30.5	145.0		
JACQUARD-WOVEN	1.2	1.6	1.5	1.6	5.9	1.6	1.1	1.1	1.0	4.8		
OTHER-WOVEN	35.4	31.2	30.1	30.6	127.3	38.0	36.8	35.9	29.5	140.2		
SILK FABRICS	0.2	0.2	0.2	0.2	0.8	0.7	0.3	0.3	0.3	1.6		
UPHOLSTERY & TAPESTRY FABRICS	24.3	24.0	19.7	21.8	89.8	22.7	18.8	15.7	22.0	87.2		
ALL OTHER[f]	2.8	2.9	2.4	2.4	10.5	2.6	2.8	2.6				
TOTAL MAN-MADE FIBER FABRICS ABOVE	**1713.9**	**1681.6**	**1555.3**	**1656.5**	**6607.3**	**1779.0**	**1684.2**	**1588.5**	**1803.0**	**6854.7**		

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T.*

a. Includes flat, faille and canton crepes.

b. Includes marquisettes, ninons, sheers, industrials and satins.

c. Includes overdyed fabrics.

d. Includes seersucker.

e. Includes bedspread fabric (except glass).

f. Includes tie, girdle & swimwear and twisted paper yarn fabrics.

during the first quarter of 1981, an increase of 6% over the 343,093 thousand pounds exported during the fourth quarter of 1980. Exports of rayon+acetate filament yarn increased 18% to 8,397 thousand pounds and rayon+acetate staple+tow exports, at 15,914 thousand pounds, increased 23%. The only cellulosic category to show a decline was textured filament yarn.

U.S. exports of non-cellulosic yarn+monofilaments increased 26% to 115,733 thousand pounds in the latest quarter. However, exports of non-cellulosic staple+tow declined 4½% to 187,034 thousand pounds during first quarter 1981. Most of this decline was for polyester staple which fell 14% to 108,893 thousand pounds.

U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER & MANUFACTURES, COTTON MANUFACTURES & WOOL MANUFACTURES

MILLION POUNDS

PRODUCTS	4TH Q 1979			1ST Q 1980			2ND Q 1980			3RD Q 1980			4TH Q 1980			1ST Q 1981		
	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]
RAYON+ACETATE																		
YARN+MONOFILAMENTS	2.8	8.3	5.5 E	2.0	6.9	4.9 E	2.5	6.3	3.8 E	1.8	6.7	4.9 E	2.0	7.1	5.1 E	3.4	8.4	5.0 E
STAPLE+TOW[b]	1.8	20.5	18.7 E	2.1	19.1	17.0 E	2.0	19.3	17.3 E	2.7	19.7	17.0 E	3.5	12.9	9.4 E	4.0	15.9	11.9 E
WASTE	0.2	1.7	1.5 E	0.1	1.9	1.8 E	0.1	1.8	1.7 E	0.1	1.7	1.6 E	0.1	0.8	0.7 E	0.1	0.7	0.6 E
SUBTOTAL ABOVE	**4.8**	**30.5**	**25.7 E**	**4.2**	**27.9**	**23.7 E**	**4.6**	**27.4**	**22.8 E**	**4.6**	**28.1**	**23.5 E**	**5.6**	**20.8**	**15.2 E**	**7.5**	**25.0**	**17.5 E**
NON-CELLULOSIC FIBERS																		
YARN+MONOFILAMENTS	3.7	82.0	78.3 E	4.8	78.3	73.5 E	5.4	92.5	87.1 E	5.6	92.3	86.7 E	3.8	92.1	88.3 E	3.4	115.7	112.3 E
STAPLE+TOW	8.9	188.1	179.2 E	9.6	163.8	154.2 E	9.8	190.9	181.1 E	7.1	182.0	174.9 E	9.1	195.8	186.7 E	12.8	187.0	174.2 E
WASTE	4.7	46.7	42.0 E	5.8	38.1	32.3 E	5.1	33.7	28.6 E	4.4	22.3	17.9 E	6.2	22.4	16.2 E	11.9	25.7	13.8 E
SUBTOTAL ABOVE	**17.3**	**316.8**	**299.5 E**	**20.2**	**280.2**	**260.0 E**	**20.3**	**317.1**	**296.8 E**	**17.1**	**296.6**	**279.5 E**	**19.1**	**310.3**	**291.2 E**	**28.1**	**328.4**	**300.3 E**
TOTAL FIBER ABOVE[c]	**22.1**	**347.3**	**325.2 E**	**24.4**	**308.1**	**283.7 E**	**24.9**	**344.5**	**319.6 E**	**21.7**	**324.7**	**303.0 E**	**24.7**	**331.1**	**306.4 E**	**35.6**	**353.4**	**317.8 E**
MAN-MADE FIBER MANUFACTURES[d]																		
SLIVER, TOPS & ROVING	0.9	3.4	2.5 E	0.7	[illegible]	3.3 E	0.9	3.3	2.4 E	1.0	2.4	1.4 E	0.2	3.4	3.2 E	1.2	2.3	1.1 E
SPUN YARNS	6.0	10.0	4.0 E	7.3	[illegible]	0.1 E	6.6	8.2	1.6 E	4.1	7.4	3.3 E	4.9	9.8	4.9 E	6.8	14.6	7.8 E
THREAD & CRAFT YARNS	0.7	2.9	2.2 E	0.7	[illegible]	1.5 E	0.5	1.7	1.2 E	0.5	1.9	1.4 E	0.6	1.6	1.0 E	0.7	1.5	0.8 E
TIRE CORD & FABRIC	+	24.0	24.0 E	+	24.3	24.3 E	+	32.0	32.0 E	+	27.7	27.7 E	0.1	31.5	31.4 E	+	14.0	14.0 E
WOVEN FABRIC	12.1	63.5	51.4 E	16.3	55.8	39.5 E	18.0	63.7	45.7 E	17.2	60.3	43.1 E	15.8	70.0	54.2 E	21.4	57.3	35.9 E
KNIT FABRIC	1.9	4.6	2.7 E	1.5	5.2	3.7 E	1.4	5.9	4.5 E	1.6	5.8	4.2 E	1.5	6.3	4.8 E	0.6	5.7	5.1 E
NARROW FABRIC	1.7	3.3	1.6 E	2.5	4.9	2.4 E	2.1	7.8	5.7 E	1.9	6.7	4.8 E	1.6	6.1	4.5 E	1.9	6.2	4.3 E
APPAREL - KNIT	42.9	16.9	66.0 I	35.8	29.2	46.2 I	50.3	33.8	62.9 I	61.9	32.1	87.8 I	39.7	32.0	54.5 I	32.8	31.9	51.4 I
- NOT KNIT	40.0			39.6			46.4			58.0			46.8			50.5		
HOME FURNISHINGS	12.0	21.9	26.7 E	11.5	25.2	31.6 E	13.8	31.3	34.5 E	13.8	25.9	27.4 E	13.5	29.0	31.0 E	13.2	22.8	26.2 E
OTHER		16.8			17.9			17.0			15.3			15.5			16.6	
TOTAL MANUFACTURES	**118.2**	**167.3**	**49.1 E**	**115.9**	**176.1**	**60.2 E**	**140.0**	**204.7**	**64.7 E**	**160.0**	**185.5**	**25.5 E**	**124.7**	**205.2**	**80.5 E**	**129.1**	**172.9**	**43.8 E**
TOTAL MAN-MADE FIBER & MANUFACTURES	**140.3**	**514.6**	**374.3 E**	**140.3**	**484.2**	**343.9 E**	**164.9**	**549.2**	**384.3 E**	**181.7**	**510.2**	**328.5 E**	**149.4**	**536.3**	**386.9 E**	**164.7**	**526.3**	**361.6 E**
COTTON MANUFACTURES[e]	**177.5**	**132.6**	**44.9 I**	**197.3**	**140.8**	**56.5 I**	**217.1**	**139.9**	**77.2 I**	**222.9**	**125.5**	**97.4 I**	**173.6**	**116.9**	**56.7 I**	**237.3**	**102.1**	**135.2 I**
WOOL MANUFACTURES[f]	**22.9**	**4.7**	**18.2 I**	**22.2**	**4.0**	**18.2 I**	**27.4**	**8.2**	**19.2 I**	**32.1**	**6.4**	**25.7 I**	**21.6**	**5.7**	**15.9 I**	**23.5**	**5.6**	**17.9 I**

SOURCES: The man-made fiber import and export data are from the U.S. Bureau of the Census.

The man-made, cotton and wool manufactures data are from *Cotton and Wool Situation*, a publication of the U.S. Department of Agriculture.

The total man-made fiber and manufactures import, export and balance data of this table cover the cellulosic and non-cellulosic fibers only; textile glass fiber is excluded.

a. E means a net export balance; I is a net import balance.

b. Acetate tow is excluded.

c. The fibers included are shown as "Total Man-Made Fiber Above" on page 79 herewith.

d. Man-made fiber equivalent.

e. Raw cotton equivalent. Data are similar to those on page 37 of the March 1981 ORGANON issue.

f. Raw wool content. The data differ from those on page 37 of the March 1981 ORGANON issue to the extent that noils and waste are included here.

U.S. EXPORTS OF MAN-MADE FIBERS

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1980					1981				
		1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
RAYON+ACETATE											
FILAMENT YARN[a]											
TEXTURED	310.0006	321	234	1509	521	2585	93				
OTHER[b]	310.0026	6431	6030	5118	6551	24130	8191				
MONOFILAMENTS	309.0110	89	32	9	19	149	47				
STRIPS	309.2210	41	1	23	1	66	66				
SUBTOTAL ABOVE		**6882**	**6297**	**6659**	**7092**	**26930**	**8397**				
STAPLE+TOW - RAYON	309.4222	16581	17378	18763	12095	64817	12222				
STAPLE - ACETATE	309.4219	2549	1940	954	812	6255	3692				
SUBTOTAL ABOVE		**19130**	**19318**	**19717**	**12907**	**71072**	**15914**				
WASTE, ADVANCED & NOT ADVANCED	309.7400	1842	1773	1726	749	6090	693				
NON-CELLULOSIC FIBERS											
FILAMENT YARN[a]											
NYLON - TEXTURED	310.0008 & .0009	10848	10303	15608	17014	53773	21787				
- HIGH TENACITY[c]	310.0027	13761	14502	13848	15693	57804	18138				
- OTHER	310.0029	5848	6514	6218	6387	24967	5461				
POLYESTER - TEXTURED	310.0010	22596	29472	30889	31953	114910	48758				
- HIGH TENACITY[c]	310.0032	7995	6763	3883	4561	23202	4870				
- OTHER[d]	310.0034	1103	1886	2329	2175	7493	2380				
OTHER - TEXTURED	310.0014	4086	5077	5599	4243	19005	4174				
- OLEFIN	310.0040	389	796	683	652	2520	741				
- OTHER	310.0044	1360	1574	1266	1065	5265	1566				
MONOFILAMENTS, ALL DENIERS											
NYLON	309.0120	4364	5002	3647	2294	15307	2387				
POLYESTER[e]	309.0140	3500	6050	5678	3757	18985	2816				
OTHER	309.0170	1762	3233	2114	1556	8665	1289				
STRIPS	309.2220 & .2270	715	1328	598	786	3427	1366				
SUBTOTAL ABOVE		**78327**	**92500**	**92300**	**92136**	**355323**	**115733**				
STAPLE - NYLON	309.4240	8263	5805	7693	7545	29306	9443				
- POLYESTER	309.4242	84380	117941	117965	127004	447290	108893				
- ACRYLIC	309.4245	39136	30799	34986	40251	145172	41711				
- OLEFIN	309.4246	866	861	523	1025	3275	664				
- OTHER	309.4247	4643	5582	3278	4248	17751	5015				
GROUPED FILAMENTS											
NYLON	309.3220	1726	2714	1005	1837	7282	1724				
POLYESTER[d]	309.3240	16041	19690	10025	9124	54880	9508				
ACRYLIC	309.3250 & .3255	8704	7531	6487	4795	27517	10076				
SUBTOTAL ABOVE		**163759**	**190923**	**181962**	**195829**	**732473**	**187034**				
WASTE, ADVANCED & NOT ADVANCED											
NYLON	309.7620	3620	4563	4018	2319	14520	3470				
POLYESTER	309.7630	22134	17087	10260	11672	61153	11606				
ACRYLIC	309.7640	511	511	469	861	2352	1874				
OTHER	309.7660	11862	11496	7522	7515	38395	8718				
TOTAL MAN-MADE FIBER ABOVE		**308067**	**344468**	**324093**	**331080**	**1308306**	**353439**				
TEXTILE GLASS FIBER	309.2700 & .9700	15164	15511	11719	12013	54407	10180				
GRAND TOTAL ABOVE		**323231**	**359979**	**336412**	**343093**	**1362715**	**363619**				

SOURCE: U.S. Census Bureau Report.

a. Includes thrown, singles and plied yarn.

b. Includes an undetermined amount of rayon tire cord and cord fabric.

c. Includes an undetermined amount of non-cellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

e. These data are obviously incorrect because of misclassification. Most of these poundages should be included with filament yarn.

TWO BOOK REVIEWS

SHUTTLELESS WEAVING MACHINES

O. Talavasek and V. Svaty. Elsevier Scientific Publishing Company, P.O. Box 211, Amsterdam, The Netherlands. 626 pages. 1981, $109.75 (Dfl 225.00). Distributed in the U.S. and Canada by Elsevier North-Holland, Inc., 52 Vanderbilt Avenue, New York, NY 10017.

This book represents the third in the Textile Science and Technology Series and provides a comprehensive review of shuttleless weaving machines. The previous two volumes dealt with open-end spinning and the processing of polyester fibers.

The book begins with a historical review of the development of weaving and the basic weaving mechanisms. Covered in this part of the book are such subjects as: the weaving technique; weaving machines; drive, clutch & brake; warp let-off; fabric draw-off; cam-operated shedding motions; dobbies; jacquards; and weft beat-up mechanisms.

The main section of the book deals with various methods of shuttleless weaving such as: yarn preparation for shuttleless weft insertion; ballistic weft insertion; weft insertion by gripper projectiles; shuttle picking; jet picking; air-jet picking; rapier insertion; and multiphase weaving machines.

Next, the authors discuss the combined weaving and knitting systems and several practical aspects of weaving using shuttleless machines. The topics covered include weft change motions, stop motions, fabric selvedges and weaving machine accessories.

The last few chapters in the book deal with manufacture and economics of shuttleless looms. The aspects covered in this section include the operation of the looms in the mill, the weaving mill itself, loom output, weaving economics and trends in the weaving industry.

The book will prove useful to anyone involved in the weaving field, from student to loom designer. The material has been arranged to make the information readily accessible.

PROCEEDINGS OF FIBER PRODUCER CONFERENCE 1980

Edited by D. D. Edie & J. K. Johnson. Continuing Engineering Education, Clemson University, P.O. Drawer 1607, Clemson, SC 29631. 170 pages. $25.00.

This book contains the papers presented at the Fiber Producer Conference 1980, which was held at the Textile Hall, Greenville, SC, on July 15-17, 1980. The conference was cosponsored by Clemson University, *Fiber Producer* magazine and Textile Hall Corporation.

The book is divided into twelve sections which deal with various aspects of fiber production. The topics covered include: pump maintenance & wear surface treatment; polymerization; waste reclamation; polymer distribution; fundamentals of fiber formation; inverters & drives; computer control; finishes; high-speed winding; staple processing; and fiber texturing.

Most of the papers are technical in nature, dealing with specific aspects of fiber production. The final paper, on air-texturing, deals with both the technical aspects of that process as well as possible uses for the finished yarn.

Overall, the papers presented at this conference give the reader an overview of the current technology as it applies to fiber production.

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEM	1981			3 MONTHS	
	JAN	FEB	MAR	1981	1980
RAYON+ACETATE YARN, MONOFIL & STRIPS					
CANADA	318	125	8	451	117
MEXICO	161	79	163	403	455
WEST GERMANY	242	290	555	1087	378
NETHERLANDS	236	593	333	1162	97
SPAIN	142	0	0	142	0
UNITED KINGDOM	1	10	0	11	506
JAPAN	64	0	0	64	234
ALL OTHER COUNTRIES[a]	20	54	25	99	249
TOTAL R+A YARN	**1184**	**1151**	**1084**	**3419**	**2036**
RAYON+ACETATE STAPLE+TOW					
CANADA	469	474	436	1379	329
AUSTRIA	731	113	166	1010	130
FRANCE	18	83	39	140	3
WEST GERMANY	0	0	85	85	56
SWEDEN	332	234	184	750	838
UNITED KINGDOM	226	76	7	309	442
JAPAN	90	147	74	311	314
ALL OTHER COUNTRIES[b]	0	12	0	12	7
TOTAL R+A STAPLE	**1866**	**1139**	**991**	**3996**	**2119**
NON-CELLULOSIC YARN, MONOFIL & STRIPS					
CANADA	50	98	4	152	201
FRANCE	94	130	203	427	80
WEST GERMANY	256	382	275	913	884
ITALY	52	152	35	239	29
UNITED KINGDOM	57	114	37	208	76
JAPAN	300	671	357	1328	3169
ALL OTHER COUNTRIES[c]	83	63	38	184	351
TOTAL N.C. YARN	**892**	**1610**	**949**	**3451**	**4790**
NON-CELLULOSIC STAPLE+TOW					
CANADA	328	350	449	1127	819
MEXICO	190	28	97	315	19
BELGIUM	0	130	0	130	0
FRANCE	44	797	198	1039	12
WEST GERMANY	541	1963	1625	4129	2670
ITALY	7	813	616	1436	250
POLAND	44	38	0	82	0
ROMANIA	0	0	132	132	245
UNITED KINGDOM	208	508	320	1036	786
JAPAN	828	335	367	1530	1614
TAIWAN	324	745	588	1657	3111
ALL OTHER COUNTRIES[d]	0	108	44	152	77
TOTAL N.C. STAPLE	**2514**	**5815**	**4436**	**12765**	**9603**

Other countries supplying 1981 poundages are:

a. Austria 21, Belgium 75, South Korea 1, Sweden 2.

b. Italy 12.

c. Denmark 1, South Korea 44, Mexico 46, Netherlands 10, Portugal 8, Spain 61, Sweden 2, Switzerland 12.

d. Hong Kong 1, Ireland 56, Israel 5, Netherlands 83, Portugal 7.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1981						3 MONTHS	
		JAN	FEB	MAR	APR	MAY	JUN	1981	1980
RAYON+ACETATE									
YARN - SINGLES									
TEXTURED	310.0106 & .0206	1	10	0				11	251
OTHER	310.0130 & .0230[a]	1182	1139	1084				3405	1785
MONOFILAMENTS	309.0310 & .0610	1	2	0				3	0
STRIPS, $1/LB & UNDER	309.2000*	0	0	0				0	0
SUBTOTAL ABOVE		**1184**	**1151**	**1084**				**3419**	**2036**
STAPLE	309.4320 & .4325	1627	1006	927				3560	1430
GROUPED FILAMENTS	309.3010 & .3110	239	133	64				436	689
SUBTOTAL ABOVE		**1866**	**1139**	**991**				**3996**	**2119**
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	37	7	37				81	51
NON-CELLULOSIC FIBERS									
YARN - SINGLES									
TEXTURED - NYLON	310.0109 & .0209	197	217	215				629	125
- POLYESTER	310.0110 & .0210	27	7	22				56	98
- OTHER	310.0114 & .0214	17	56	8				81	103
OTHER - NYLON	310.0149 & .0249	204	525	127				856	1328
- POLYESTER	310.0150 & .0250	111	411	299				821	1263
- OTHER	310.0170 & .0270[b]	170	183	113				466	392
MONOFILAMENTS	309.0200 & .0330[c]	145	200	149				494	1423
STRIPS, OVER $1/LB	309.2100 & .2500*	21	11	16				48	58
SUBTOTAL ABOVE		**892**	**1610**	**949**				**3451**	**4790**
STAPLE - NYLON	309.4338	525	2686	1698				4909	287
- POLYESTER	309.4342	132	111	306				549	368
- ACRYLIC	309.4345	1069	1594	907				3570	3373
- OLEFIN	309.4346	5	0	304				309	6
- OTHER	309.4355	469	961	673				2103	3896
GROUPED FILAMENTS									
NYLON	309.3030 & .3130	68	50	68				186	187
POLYESTER	309.3040 & .3140	0	42	0				42	25
ACRYLIC	309.3050 & .3150	181	255	178				614	1203
OTHER	309.3065 & .3165	65	116	302				483	258
SUBTOTAL ABOVE		**2514**	**5815**	**4436**				**12765**	**9603**
WASTE, NOT ADVANCED - NYLON	309.6625	1598	1587	2822				6007	4058
- POLYESTER	309.6630	1071	1810	1547				4428	937
- ACRYLIC	309.6645	289	258	200				747	470
- OTHER	309.6660	32	203	263				498	242
NOILS & GARNETTED FIBERS	309.6000 & .7000*	0	0	0				0	0
OTHER WASTE, ADVANCED	309.7525 - .7555	119	63	3				185	102
TOTAL MAN-MADE ABOVE		**9602**	**13643**	**12332**				**35577**	**24408**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD									
YARN - PLIED									
TEXTURED - CELLULOSIC	310.1106	0	--	24				24	0
- NON-CELLULOSIC	310.1015[d] & .1109[e]	268	124	213				605	264
OTHER - CELLULOSIC	310.1030 & .1135[f]	16	--	0				16	47
- NON-CELLULOSIC	310.1050 & .1070[g]	20	27	26				73	106
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	10	25	24				59	319
- OTHER	310.4015 & .4027[i]	1762	1454	1794				5010	6400
OTHER YARNS - NES, INCL. CHENILLE	310.6029 - .8000	352	109	261				722	551
HANDWORK YARNS & SEWING THREAD	310.9000 - .9140	247	230	188				665	699
SLIVER, TOPS & ROVING	309.9000	388	473	322				1183	646
TEXTILE GLASS FIBER	309.2800 & .2900[j]	1156	441	1047				2644	2004
GRAND TOTAL ABOVE		**13821**	**16526**	**16231**				**46578**	**35444**

SOURCE: U.S.Census Bureau.

NES - Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & .0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1110 & .1114.

f. Also includes 310.2010 & .2110.

g. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Chiefly roving. Also includes 309.9800 & .9900.

15

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1981 JAN	1981 FEB	1981 MAR	1981 APR	1981 MAY	1981 JUN	YEAR TO DATE[a] 1981	YEAR TO DATE[a] 1980
	TOTAL SHIPMENTS[b]							
MAN-MADE FIBER DATA[c]								
YARN+MONOFILAMENTS[d]								
ACETATE	**20.9**	**21.6**	**21.5**	**27.1**			**91.1**	**110.3**
NYLON[e] - INDUSTRIAL[f]	34.5	34.4	37.2	35.9			142.0	165.5
- LOW DENIER INDUSTRIAL[g]	3.0	3.0	3.8	2.8			12.6	13.4
- CARPET	67.1	63.8	65.3	73.4			269.6	257.6
- TEXTILE	33.7	36.6	38.4	37.3			146.0	164.3
POLYESTER - INDUSTRIAL[f]	25.5	24.3	27.3	29.0			106.1	106.2
- LOW DENIER INDUSTRIAL[g]	2.1	2.1	2.5	2.9			9.6	11.2
- TEXTILE	94.8	96.0	111.3	123.6			425.7	416.9
OLEFIN[h]	56.0	55.8	57.4	54.6			223.8	211.4
TOTAL NON-CELLULOSIC ABOVE[i]	**316.7**	**316.0**	**343.2**	**359.5**			**1335.4**	**1346.5**
STAPLE+TOW+FIBERFILL[j]								
RAYON	**40.9**	**35.4**	**37.9**	**38.3**			**152.5**	**169.2**
NYLON[e]	70.7	67.5	73.9	80.0			292.1	228.7
ACRYLIC+MODACRYLIC	59.3	62.2	63.8	65.3			250.6	279.3
POLYESTER	208.6	211.1	202.5	243.6			865.8	855.2
OLEFIN+VINYON	10.8	10.3	11.2	11.7			44.0	39.7
TOTAL NON-CELLULOSIC ABOVE	**349.4**	**351.1**	**351.4**	**400.6**			**1452.5**	**1402.9**
	END-OF-MONTH STOCK							
YARN+MONOFILAMENTS								
ACETATE	**17.0**	**15.4**	**15.8**	**13.5**			**13.5**	**11.5**
NYLON[e] - INDUSTRIAL[f]	37.5	37.9	35.7	36.7			36.7	41.2
- LOW DENIER INDUSTRIAL[g]	3.9	3.2	3.1	3.5			3.5	4.2
- CARPET	37.7	38.2	38.3	33.4			33.4	66.7
- TEXTILE	42.8	43.1	41.8	41.7			41.7	56.1
POLYESTER - INDUSTRIAL[f]	23.7	23.1	21.3	20.9			20.9	31.8
- LOW DENIER INDUSTRIAL[g]	3.6	3.4	3.5	3.6			3.6	1.7
- TEXTILE	100.2	104.1	87.3	67.5			67.5	110.5
OLEFIN[h]	63.9	62.3	61.6	60.4			60.4	76.6
TOTAL NON-CELLULOSIC ABOVE[i]	**313.3**	**315.3**	**292.6**	**267.7**			**267.7**	**388.8**
STAPLE+TOW+FIBERFILL								
RAYON	**24.2**	**25.1**	**29.3**	**28.1**			**28.1**	**35.3**
NYLON[e]	33.3	37.4	37.3	33.4			33.4	85.0
ACRYLIC+MODACRYLIC	76.5	76.3	74.3	68.5			68.5	54.6
POLYESTER	174.2	182.3	190.3	178.5			178.5	186.8
OLEFIN+VINYON	16.6	16.9	16.2	15.3			15.3	22.2
TOTAL NON-CELLULOSIC ABOVE	**300.6**	**312.9**	**318.1**	**295.7**			**295.7**	**348.6**
WOOL & COTTON CONSUMPTION								
APPAREL CLASS WOOL	11.0	12.1	14.6				37.7	35.8
CARPET CLASS WOOL	0.8	0.8	0.9				2.5	2.7
TOTAL RAW WOOL	11.8	12.9	15.5				40.2	38.5
RAW COTTON	217.4	245.4	247.1	238.1			948.0	1091.8

a. Year totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February 1981 issue for annual data.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February 1981 issue for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 21 of the February 1981 issue for annual data.

7/27/81

C 8850-1

Textile ORGANON

FEATURING MAN-MADE FIBERS

VOL. LII • NO. 6

JUNE 1981

WORLD MAN-MADE FIBER SURVEY

This issue features our annual survey of the world man-made fiber producing industry.

Earlier years' world data for most of the tables presented in this issue will also be found in the January 1962 ORGANON Base Book and in the June 1966, June 1970, June 1979 and June 1980 issues.

It will be noted that, again this year, all data in this issue are in metric tons except for the U.S. data on pages 110-112. Several tables of this issue will also be published in the July issue showing data in *millions of pounds*, i.e., pages 81, 83-88, 91 and 92.

ACKNOWLEDGEMENTS

The cooperation of more than 100 foreign man-made fiber associations, producing companies and individuals, as well as the U.S. Foreign Service posts reporting through the Office of Textiles, Domestic and International Business Administration, U.S. Department of Commerce, is acknowledged with thanks. If readers find any data omitted or incorrect, the editors will welcome information on them.

WORLD PRODUCTION OF CERTAIN TEXTILE FIBERS

THOUSAND METRIC TONS & *Percent*

TYPE OF FIBER	1974	1975	1976	1977	1978	1979	1980
RAYON+ACETATE FIBERS (from page 88)							
YARN+MONOFILAMENTS	1,302	1,136	1,188	1,172	1,167	1,176	1,159
STAPLE+TOW	2,230	1,823	2,022	2,109	2,151	2,195	2,085
TOTAL RAYON+ACETATE	**3,532**	**2,959**	**3,210**	**3,281**	**3,318**	**3,371**	**3,244**
NON-CELLULOSIC FIBERS except Olefin (from page 86)							
YARN+MONOFILAMENTS	3,785	3,763	4,128	4,312	4,603	4,898	4,731
STAPLE+TOW	3,702	3,590	4,473	4,837	5,431	5,710	5,756
TOTAL NON-CELL. ABOVE	**7,487**	**7,353**	**8,601**	**9,149**	**10,034**	**10,608**	**10,487**
TOTAL MAN-MADE ABOVE	**11,019**	**10,312**	**11,811**	**12,430**	**13,352**	**13,979**	**13,731**
% of World Total	*41*	*44*	*46*	*45*	*48*	*47*	*47*
NATURAL FIBERS							
RAW COTTON	14,046	11,757	12,480	13,921	12,973	14,270	14,137
RAW WOOL	1,531	1,538	1,487	1,488	1,528	1,573	1,581
RAW SILK	45	47	48	49	51	55	56
TOTAL NATURAL ABOVE	**15,622**	**13,342**	**14,015**	**15,458**	**14,552**	**15,898**	**15,774**
% of World Total	*59*	*56*	*54*	*55*	*52*	*53*	*53*
WORLD TOTAL ABOVE	**26,641**	**23,654**	**25,826**	**27,888**	**27,904**	**29,877**	**29,505**
World Total %	*100*	*100*	*100*	*100*	*100*	*100*	*100*

The silk and man-made fiber data are on a calendar-year basis, while the figures for cotton and wool are on a seasonal basis.

MAN-MADE FIBERS: Data are from pages 86 and 88, as noted. Textile glass fiber and olefin production on page 92 are not included.

COTTON: International Cotton Advisory Committee. Also see October 1980 ORGANON.

WOOL: Commonwealth Secretariat. The data are on a scoured basis. Also see the December 1980 ORGANON issue.

SILK: International Silk Association; Food and Agriculture Organization of the United Nations.

OLEFIN DATA PRESENTATION

The method of presenting world olefin data in recent June issues is continued this year, i.e., all olefin data are presented separately from the other non-cellulosic fibers.

The U.S. olefin production data published regularly in the ORGANON include yarn, monofil, staple, film fiber and spunbonded polypropylene. Published Italian and Japanese olefin data show the production of yarn+monofilaments and staple+tow. But data from these countries on the production of film fiber, such as is used in sacks, fishing nets and carpet backing, are not available.

On the other hand, the published man-made fiber data of many other countries show little or no olefin fiber production at all, e.g., France, West Germany, the United Kingdom.

To accommodate this problem, the non-cellulosic data except olefin are presented on pages 83-86.

Then in the table on page 84, the olefin data of most countries are shown. These data consist of (a) the "official" country data published by a government, an association or other statistical agency. Then added thereto is (b) an estimate of the olefin fiber (mainly slit and split film fiber) believed to have been produced in the country.

IMPORTS, EXPORTS & BALANCE

The by-country production, import, export and net available or retained supply of four categories of man-made fiber are tabulated on pages 90 and 91 covering calendar 1979 and 1980. The 1979 data presented in the June 1980 ORGANON issue have been revised for a number of countries owing to more complete data at this time.

In the page 90 and 91 tables, "yarn" includes tire cord and tire cord fabric, filament yarn and monofilaments. Staple includes tow, fiberfill, tops and advanced waste. Unprocessed waste is not included.

In a few cases where a country's import or export data could not be accurately separated as rayon+acetate vs. non-cellulosic fiber, a division was estimated.

Except for spun yarn imports and exports, imports and exports of manufactured and semimanufactured man-made fiber products (e.g., fabric dresses, hosiery, etc.) are not included in the data.

The tables show the net import-export tonnage of spun yarn under the "Total Man-Made Fiber" columns; space does not permit the presentation of the import and export data separately.

CONTENTS

World Man-Made Fiber Survey

Olefin Data Presentation 82
Imports, Exports & Balance 82

Tables of Statistics

World Production of Fiber 81
Non-Cellulosic Fiber Data 83-86
Cellulosic Fiber Data 87-89
Production, Exports & Imports 90-91
World Production Directory 93-108
World Ownership 109-110
Number of Producing Plants 92
U.S. Monthly Import Data 110-111
U.S. Monthly Industry Data 112

Textile **ORGANON**

CHARLES A. WHITEHEAD, *EDITOR*
MICHAEL R. KEMP, *ASSOCIATE EDITOR*
DOROTHY A. DRISCOLL, *CIRCULATION MGR.*
PUBLISHED BY
TEXTILE ECONOMICS BUREAU, INC.
489 FIFTH AVE., NEW YORK, N. Y. 10017

An arrangement of authentic market data, especially important to the United States Man-Made Fiber Industry, published monthly in the interest of good business.

Copyright 1981 by Textile Economics Bureau, Inc. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription rates as of January 1979 (payable in U.S. dollars or equivalent, with order):

	U.S.A.	OTHER
Annually	$100.00	$150.00
Single Issues		
June	10.00	15.00
November	10.00	15.00
All Others	8.00	12.00

All U.S. issues will be sent by first class mail and those to all other countries by airmail.

WORLD NON-CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY FIBER EXCEPT OLEFIN

THOUSAND METRIC TONS

FIBER & AREA	ACTUAL PRODUCTION																					PRODUCING CAPACITY					
	1974			1975			1976			1977			1978			1979			1980			1981			1982		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC																											
WEST EUROPE	2	586	586	1	539	540	+	734	734	+	677	677	+	794	794	+	795	795	+	732	732	+	1057	1057	+	1022	1022
EAST EUROPE	0	151	151	0	163	163	0	172	172	0	184	184	0	200	200	0	213	213	0	227	227	0	264	264	0	330	330
U.S.A.	0	286	286	0	238	238	0	282	282	0	322	322	0	329	329	0	345	345	0	354	354	0	376	376	0	387	387
OTHER AMERICAS	0	60	60	0	66	66	0	82	82	0	82	82	0	98	98	0	108	108	0	114	114	0	137	137	0	174	174
JAPAN	2	276	278	2	241	243	2	308	310	3	335	338	3	370	373	4	355	359	3	350	353	6	400	406	6	400	406
ALL OTHER	0	86	86	0	141	141	0	162	162	0	187	187	0	227	227	0	249	249	0	303	303	0	362	362	0	362	362
TOTAL	4	1445	1449	3	1388	1391	2	1740	1742	3	1787	1790	3	2018	2021	4	2065	2069	3	2080	2083	6	2596	2602	6	2675	2681
NYLON+ARAMID																											
WEST EUROPE	633	118	751	542	88	630	633	122	755	566	122	688	566	150	716	571	148	719	520	127	647	742	218	960	706	212	918
EAST EUROPE	273	27	300	327	28	355	387	28	415	394	31	425	405	31	436	414	31	445	460	34	494	519	64	583	594	86	680
U.S.A.	707	256	963	588	255	843	623	319	942	686	369	1055	750	407	1157	808	426	1234	740	330	1070	844	440	1284	919	480	1399
OTHER AMERICAS	149	12	161	157	18	175	171	19	190	174	20	194	187	22	209	205	23	228	207	23	230	277	36	313	304	38	342
JAPAN	278	16	294	264	15	279	285	16	301	292	16	308	293	16	309	296	17	313	300	18	318	318	24	342	318	24	342
ALL OTHER	153	2	155	205	2	207	243	3	246	265	3	268	309	3	312	341	3	344	364	2	366	473	10	483	500	10	510
TOTAL	2193	431	2624	2083	406	2489	2342	507	2849	2377	561	2938	2510	629	3139	2635	648	3283	2591	534	3125	3173	792	3965	3341	850	4191
POLYESTER																											
WEST EUROPE	387	397	784	361	321	682	393	406	799	367	409	776	393	429	822	407	445	852	347	415	762	507	637	1144	476	641	1117
EAST EUROPE	67	183	250	76	204	280	87	227	314	94	291	385	112	304	416	118	308	426	126	330	456	149	422	571	196	517	713
U.S.A.	639	688	1327	662	696	1358	637	878	1515	722	930	1652	710	1014	1724	779	1117	1896	663	1146	1809	835	1232	2067	816	1273	2089
OTHER AMERICAS	133	91	224	162	88	250	167	101	268	192	120	312	196	134	330	214	164	378	215	168	383	301	237	538	317	246	563
JAPAN	203	263	466	199	246	445	251	284	535	278	294	572	318	319	637	314	318	632	305	320	625	371	341	712	371	341	712
ALL OTHER	116	99	215	181	170	351	209	255	464	235	368	603	321	500	821	386	554	940	437	660	1097	592	831	1423	693	947	1640
TOTAL	1545	1721	3266	1641	1725	3366	1744	2151	3895	1888	2412	4300	2050	2700	4750	2218	2906	5124	2093	3039	5132	2755	3700	6455	2869	3965	6834
OTHER FIBERS[a] EXCEPT OLEFIN																											
WEST EUROPE	4	15	19	3	11	14	4	11	15	4	10	14	3	9	12	5	11	16	4	12	16	8	12	20	8	13	21
EAST EUROPE	8	8	16	8	6	14	9	6	15	9	5	14	9	7	16	5	7	12	7	7	14	10	12	22	11	12	23
U.S.A.	5	3	8	5	1	6	6	1	7	7	1	8	7	1	8	8	1	9	8	1	9	9	3	12	9	3	12
OTHER AMERICAS	+	0	+	+	0	+	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1
JAPAN	22	66	88	15	39	54	15	43	58	17	45	62	15	42	57	17	42	59	18	43	61	28	103	131	28	103	131
ALL OTHER	4	13	17	5	14	19	5	14	19	6	16	22	5	25	30	5	30	35	6	40	46	10	65	75	10	65	75
TOTAL	43	105	148	36	71	107	40	75	115	44	77	121	40	84	124	41	91	132	44	103	147	66	195	261	67	196	263
TOTAL FIBERS ABOVE																											
WEST EUROPE	1026	1116	2142	907	959	1866	1030	1273	2303	937	1218	2155	962	1382	2344	983	1399	2382	871	1286	2157	1257	1924	3181	1190	1888	3078
EAST EUROPE	348	369	717	411	401	812	483	433	916	497	511	1008	526	542	1068	537	559	1096	593	598	1191	678	762	1440	801	945	1746
U.S.A.	1351	1233	2584	1255	1190	2445	1266	1480	2746	1415	1622	3037	1467	1751	3218	1595	1889	3484	1411	1831	3242	1688	2051	3739	1744	2143	3887
OTHER AMERICAS	282	163	445	319	172	491	339	202	541	367	222	589	384	254	638	420	295	715	423	305	728	579	410	989	622	458	1080
JAPAN	505	621	1126	480	541	1021	553	651	1204	590	690	1280	629	747	1376	631	732	1363	626	731	1357	723	868	1591	723	868	1591
ALL OTHER	273	200	473	391	327	718	457	434	891	506	574	1080	635	755	1390	732	836	1568	807	1005	1812	1075	1268	2343	1203	1384	2587
WORLD TOTAL	3785	3702	7487	3763	3590	7353	4128	4473	8601	4312	4837	9149	4603	5431	10034	4898	5710	10608	4731	5756	10487	6000	7283	13283	6283	7686	13969

Y means yarn+monofilaments. S means staple+tow+fiberfill. The regional totals here are the same as those on pages 84-86.

a. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE-fluorocarbon, vinal and vinyon.

WORLD NON-CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY (EXCEPT OLEFIN)

THOUSAND METRIC TONS

	WEST EUROPE																	
	AUSTRIA	BENELUX[a]			EIRE (IRELAND)			FINLAND	FRANCE			WEST GERMANY			GREECE		
YEAR	S	Y	S	TOT	Y	S	TOT	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	18.6	90.6	64.7	155.3	5.8	5.5	11.3	1.2	98.8	138.9	237.7	376.9	388.0	764.9	4.7	0	4.7
1975	16.7	76.7	46.2	122.9	6.0	6.0	12.0	1.1	85.5	119.0	204.5	321.7	303.6	625.3	5.4	0	5.4
1976	27.4	84.5	61.8	146.3	6.3	9.0	15.3	0.8	105.1	143.7	248.8	369.0	390.4	759.4	8.3	5.0	13.3
1977	25.9	85.1	54.2	139.3	2.4	12.5	14.9	0.4	100.3	143.6	243.9	325.0	365.2	690.2	7.7	7.5	15.2
1978	30.4	94.7	48.0	142.7	8.3	26.0	34.3	0.5	91.7	154.7	246.4	326.0	403.4	729.4	8.5	7.9	16.4
1979	29.3	95.2	40.4	135.6	10.8	32.0	42.8	0.4	78.7	145.3	224.0	338.0	421.5	759.5	9.2	9.5	18.7
1980	25.4	71.9	32.4	104.3	11.0	32.0	43.0	0.4	65.3	126.7	192.0	317.7	402.4	720.1	9.0	10.0	19.0
PRODUCING CAPACITY																	
1981	*21.0*	*103.0*	*61.0*	*164.0*	*17.0*	*39.0*	*56.0*	*0.6*	*113.0*	*160.0*	*273.0*	*393.0*	*512.0*	*905.0*	*13.7*	*12.0*	*25.7*
1982	*21.0*	*81.5*	*35.0*	*116.5*	*17.0*	*39.0*	*56.0*	*0.6*	*113.0*	*161.0*	*274.0*	*382.0*	*501.0*	*883.0*	*13.7*	*12.0*	*25.7*

	WEST EUROPE *(Continued)*																
	ITALY/MALTA			PORTUGAL			SPAIN			SWEDEN	SWITZERLAND			TURKEY		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	Y	S	TOT	Y	S	TOT
1974	132.6	164.1	296.7	1.5	8.5	10.0	49.7	78.4	128.1	1.1	46.6	24.9	71.5	16.0	28.2	44.2
1975	115.0	161.9	276.9	1.4	5.7	7.1	45.5	73.7	119.2	0.9	44.8	20.7	65.5	18.9	28.3	47.2
1976	130.7	245.9	376.6	1.7	10.1	11.8	54.1	94.4	148.5	1.0	49.4	27.3	76.7	18.5	44.2	62.7
1977	118.4	211.7	330.1	1.5	16.6	18.1	55.1	104.6	159.7	0.1	49.0	28.7	77.7	15.0	65.5	80.5
1978	117.9	236.5	354.4	1.6	26.1	27.7	60.8	129.1	189.9	0.1	49.8	33.4	83.2	22.1	60.6	82.7
1979	126.6	233.6	360.2	1.7	29.2	30.9	71.7	141.4	213.1	0.1	49.1	30.0	79.1	30.0	77.0	107.0
1980	124.9	229.9	354.8	1.5	29.6	31.1	64.0	142.1	206.1	0.1	51.2	23.7	74.9	28.0	70.0	98.0
PRODUCING CAPACITY																
1981	*199.5*	*449.0*	*648.5*	*2.0*	*41.0*	*43.0*	*102.3*	*200.0*	*302.3*	*0.2*	*77.5*	*34.0*	*111.5*	*66.0*	*144.5*	*210.5*
1982	*211.0*	*449.0*	*660.0*	*2.0*	*41.0*	*43.0*	*102.3*	*200.0*	*302.3*	*0.2*	*77.5*	*34.0*	*111.5*	*66.0*	*144.5*	*210.5*

	W. EUROPE *(Cont.)*			EAST EUROPE											
	UNITED KINGDOM			BULGARIA			CZECHOSLOVAKIA			GERMAN DEM. REP.			HUNGARY		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	200.3	195.8	396.1	10.0	30.8	40.8	35.9	17.3	53.2	51.0	53.0	104.0	3.5	7.5	11.0
1975	184.0	177.1	361.1	10.7	31.0	41.7	44.3	18.9	63.2	49.0	62.8	111.8	2.8	8.0	10.8
1976	200.1	214.1	414.2	13.0	28.9	41.9	49.0	19.6	68.6	51.0	66.6	117.6	3.2	8.0	11.2
1977	176.7	182.1	358.8	12.5	31.5	44.0	46.0	23.0	69.0	53.0	71.0	124.0	3.2	13.1	16.3
1978	180.9	225.5	406.4	13.0	33.0	46.0	49.0	25.0	74.0	53.5	74.0	127.5	3.3	15.4	18.7
1979	171.4	209.7	381.1	13.0	35.0	48.0	50.0	22.0	72.0	54.6	77.9	132.5	3.2	14.8	18.0
1980	125.9	161.7	287.6	12.8	37.0	49.8	54.0	22.4	76.4	57.0	82.0	139.0	4.8	14.2	19.0
PRODUCING CAPACITY															
1981	*169.0*	*251.0*	*420.0*	*13.5*	*46.0*	*59.5*	*59.0*	*53.0*	*112.0*	*61.0*	*103.0*	*164.0*	*6.0*	*17.5*	*23.5*
1982	*123.0*	*251.0*	*374.0*	*13.5*	*62.0*	*75.5*	*59.0*	*53.0*	*112.0*	*73.0*	*103.0*	*176.0*	*6.0*	*17.5*	*23.5*

	EAST EUROPE *(Continued)*														
	POLAND			ROMANIA			U.S.S.R.			YUGOSLAVIA			TOTAL EUROPE		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	38.7	55.9	94.6	14.0	63.7	77.7	191.0	127.5	318.5	3.9	13.7	17.6	1373.8	1485.0	2858.8
1975	53.4	65.0	118.4	17.0	67.6	84.6	229.0	133.0	362.0	5.4	14.4	19.8	1318.5	1359.6	2678.1
1976	69.7	68.5	138.2	28.0	86.0	114.0	260.0	140.0	400.0	9.3	15.5	24.8	1512.7	1706.4	3219.1
1977	81.2	65.5	146.7	29.0	95.0	124.0	265.0	191.0	456.0	7.3	20.3	27.6	1433.9	1728.5	3162.4
1978	85.2	66.9	152.1	30.0	100.0	130.0	275.0	200.0	475.0	17.0	28.0	45.0	1488.9	1923.9	3412.8
1979	87.4	65.9	153.3	35.0	105.0	140.0	273.0	203.0	476.0	21.0	35.0	56.0	1520.1	1957.5	3477.6
1980	89.3	68.4	157.7	33.0	103.0	136.0	319.0	231.0	550.0	23.0	40.0	63.0	1463.8	1883.9	3347.7
PRODUCING CAPACITY															
1981	*100.0*	*83.0*	*183.0*	*40.0*	*119.0*	*159.0*	*370.0*	*274.0*	*644.0*	*28.0*	*67.0*	*95.0*	*1934.3*	*2687.0*	*4621.3*
1982	*122.0*	*83.0*	*205.0*	*40.0*	*144.0*	*184.0*	*444.0*	*414.0*	*858.0*	*43.0*	*69.0*	*112.0*	*1990.3*	*2834.0*	*4824.3*

Y means yarn+monofilaments. S means staple+tow+fiberfill. TOT means total.

The producing capacity, in operable condition, is shown on an annual basis as of March 1981 (1981) and December 1982 (1982).

These totals do not contain data for the fibers produced in North Korea.

a. Benelux includes Belgium, Netherlands and Luxembourg.

4

WORLD NON-CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY (EXCEPT OLEFIN) *(Continued)*

THOUSAND METRIC TONS

				OTHER AMERICAS												
	U.S.A.			ARGENTINA			BRAZIL			CANADA			CHILE			COSTA RICA
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y
1974	1351.7	1232.7	2584.4	26.6	19.9	46.5	68.7	47.0	115.7	65.4	26.6	92.0	5.1	3.9	9.0	0
1975	1254.6	1190.6	2445.2	26.3	19.8	46.1	80.1	45.5	125.6	64.3	31.5	95.8	3.4	1.9	5.3	0
1976	1265.9	1479.9	2745.8	23.2	16.8	40.0	96.6	60.7	157.3	63.8	32.8	96.6	4.0	3.0	7.0	+
1977	1415.2	1622.0	3037.2	24.4	15.8	40.2	95.6	64.2	159.8	69.3	43.5	112.8	4.0	2.2	6.2	+
1978	1466.8	1751.2	3218.0	22.2	17.0	39.2	105.7	74.5	180.2	72.2	50.9	123.1	4.4	1.5	5.9	2.0
1979	1594.5	1889.2	3483.7	29.6	22.6	52.2	122.5	91.4	213.9	73.1	48.5	121.6	5.0	2.4	7.4	2.0
1980	1411.6	1830.5	3242.1	22.0	16.0	38.0	136.4	95.0	231.4	74.0	48.0	122.0	5.0	2.5	7.5	3.0
PRODUCING CAPACITY																
1981	*1687.8*	*2051.6*	*3739.4*	*45.0*	*29.0*	*74.0*	*143.2*	*108.7*	*251.9*	*113.1*	*53.8*	*166.9*	*10.0*	*4.2*	*14.2*	*7.2*
1982	*1744.6*	*2142.7*	*3887.3*	*45.0*	*37.0*	*82.0*	*162.1*	*114.4*	*276.5*	*119.0*	*55.2*	*174.2*	*10.0*	*4.2*	*14.2*	*7.2*

	OTHER AMERICAS *(Continued)*																	
	COLOMBIA			ECUADOR	GUATEMALA	MEXICO			PERU			URUGUAY			VENEZUELA		
YEAR	Y	S	TOT	Y	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	16.4	7.0	23.4	0	0	84.8	41.7	126.5	5.1	11.9	17.0	1.4	0	1.4	8.4	5.2	13.6
1975	20.5	6.8	27.3	0.3	0	107.7	47.3	155.0	5.6	13.6	19.2	1.0	0	1.0	10.3	5.1	15.4
1976	27.7	6.2	33.9	1.8	0	104.9	57.7	162.6	3.8	19.8	23.6	1.1	0	1.1	11.5	5.3	16.8
1977	32.7	6.1	38.8	2.3	0	120.4	65.6	186.0	5.6	19.2	24.8	1.1	+	1.1	11.7	5.7	17.4
1978	33.2	7.8	41.0	2.5	0	123.4	75.9	199.3	5.6	20.5	26.1	1.1	+	1.1	11.5	5.5	17.0
1979	28.7	8.0	36.7	3.4	+	136.1	93.0	229.1	7.0	21.0	28.0	1.1	2.4	3.5	11.7	6.1	17.8
1980	23.0	10.9	33.9	3.5	+	137.0	102.4	239.4	7.0	21.5	28.5	1.0	2.5	3.5	11.5	6.0	17.5
PRODUCING CAPACITY																	
1981	*36.8*	*13.0*	*49.8*	*4.8*	*2.0*	*185.0*	*163.5*	*348.5*	*14.2*	*27.0*	*41.2*	*2.5*	*3.2*	*5.7*	*15.4*	*6.9*	*22.3*
1982	*40.2*	*14.0*	*54.2*	*4.8*	*2.0*	*200.0*	*188.5*	*388.5*	*14.2*	*34.0*	*48.2*	*2.5*	*3.2*	*5.7*	*15.4*	*6.9*	*22.3*

							OTHER AFRICA, ASIA & OCEANIA									
	TOTAL OTHER AMERICAS			JAPAN			AUSTRALIA/N.Z.			BANGLADESH	PEOPLE'S REPUBLIC OF CHINA			REPUBLIC OF CHINA (TAIWAN)		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	Y	S	TOT	Y	S	TOT
1974	281.9	163.2	445.1	505.0	620.5	1125.5	21.0	1.7	22.7	0.3	11.3	28.4	39.7	86.8	56.0	142.8
1975	319.5	171.5	491.0	480.0	540.9	1020.9	19.5	1.2	20.7	0.4	13.1	32.6	45.7	148.7	85.9	234.6
1976	338.4	202.3	540.7	553.7	650.4	1204.1	20.0	1.0	21.0	0.4	15.0	37.0	52.0	160.7	111.7	272.4
1977	367.1	222.3	589.4	590.2	690.2	1280.4	17.5	1.2	18.7	0.3	18.0	42.0	60.0	175.4	189.0	364.4
1978	383.8	253.6	637.4	629.0	747.0	1376.0	18.1	1.1	19.2	0.5	30.0	106.6	136.6	223.5	240.7	464.2
1979	420.2	295.4	715.6	631.2	731.9	1363.1	16.4	0.5	16.9	0.2	45.0	128.0	173.0	256.8	264.5	521.3
1980	423.4	304.8	728.2	625.7	731.1	1356.8	13.0	+	13.0	0.3	66.0	204.0	270.0	264.7	293.2	557.9
PRODUCING CAPACITY																
1981	*579.2*	*409.3*	*988.5*	*723.0*	*868.0*	*1591.0*	*26.5*	*0*	*26.5*	*0.9*	*110.0*	*280.0*	*390.0*	*345.0*	*325.0*	*670.0*
1982	*622.4*	*457.4*	*1079.8*	*723.0*	*868.0*	*1591.0*	*26.5*	*0*	*26.5*	*0.9*	*160.0*	*330.0*	*490.0*	*345.0*	*325.0*	*670.0*

	OTHER AFRICA, ASIA & OCEANIA *(Continued)*														
	EGYPT			INDIA			INDONESIA			IRAN			ISRAEL		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	0.3	0.4	0.7	15.2	7.9	23.1	2.2	1.9	4.1	5.6	0	5.6	0.9	5.5	6.4
1975	0.3	0.5	0.8	20.1	13.3	33.4	3.6	4.2	7.8	6.8	0	6.8	4.0	5.6	9.6
1976	0.6	0.6	1.2	24.2	19.7	43.9	11.0	25.0	36.0	8.7	0	8.7	5.7	6.2	11.9
1977	0.8	0.4	1.2	25.6	21.6	47.2	17.3	37.2	54.5	8.5	0	8.5	5.8	5.6	11.4
1978	0.8	0.4	1.2	32.8	25.7	58.5	21.3	45.4	66.7	9.0	+	9.0	8.9	6.2	15.1
1979	1.5	0.4	1.9	35.8	27.8	63.6	22.7	50.3	73.0	5.0	0	5.0	9.9	6.4	16.3
1980	1.8	5.0	6.8	39.7	30.8	70.5	41.5	53.9	95.4	4.5	0	4.5	10.5	6.6	17.1
PRODUCING CAPACITY															
1981	*2.3*	*25.0*	*27.3*	*47.6*	*50.7*	*98.3*	*80.0*	*58.6*	*138.6*	*24.2*	*37.7*	*61.9*	*13.0*	*8.0*	*21.0*
1982	*9.0*	*25.0*	*34.0*	*47.6*	*70.7*	*118.3*	*80.0*	*58.6*	*138.6*	*24.2*	*37.7*	*61.9*	*13.0*	*8.0*	*21.0*

5

WORLD NON-CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY (EXCEPT OLEFIN) *(Continued)*

THOUSAND METRIC TONS

	OTHER AFRICA, ASIA & OCEANIA *(Continued)*																
	KENYA			REPUBLIC OF KOREA			MALAYSIA	NIGERIA			PAKISTAN			PHILIPPINES			SINGAPORE
YEAR	Y	S	TOT	Y	S	TOT	S	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y
1974	0	0	0	82.6	69.1	151.7	3.2	0	0	0	1.9	0	1.9	6.9	7.7	14.6	1.5
1975	0	0	0	120.0	142.7	262.7	10.0	0	0	0	1.8	0	1.8	11.0	7.8	18.8	+
1976	0	0	0	141.3	168.0	309.3	15.0	0	0	0	2.4	0	2.4	14.0	7.8	21.8	0
1977	0	0	0	162.5	187.4	349.9	30.0	0	+	+	2.2	0	2.2	14.9	7.8	22.7	0
1978	0	0	0	208.0	224.5	432.5	33.0	+	3.0	3.0	1.9	0	1.9	16.0	8.6	24.6	0
1979	+	0	+	237.2	240.1	477.3	35.0	3.0	4.0	7.0	2.0	0	2.0	25.0	11.6	36.6	0
1980	1.0	+	1.0	255.2	281.2	536.4	36.0	3.5	4.0	7.5	1.5	0	1.5	30.0	14.0	44.0	0
PRODUCING CAPACITY																	
1981	*1.5*	*5.4*	*6.9*	*282.0*	*336.3*	*618.3*	*37.8*	*5.6*	*5.0*	*10.6*	*2.3*	*0*	*2.3*	*40.0*	*18.0*	*58.0*	*0*
1982	*5.5*	*5.4*	*10.9*	*346.0*	*358.3*	*704.3*	*37.8*	*5.6*	*5.0*	*10.6*	*5.3*	*24.0*	*29.3*	*40.0*	*18.0*	*58.0*	*0*

	OTHER AFRICA, ASIA & OCEANIA *(Continued)*										WORLD TOTAL EXCEPT OLEFIN		
	SOUTH AFRICA			SRI LANKA	THAILAND			TOTAL OTHER A, A & O					
YEAR	Y	S	TOT	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	21.0	5.0	26.0	0	15.2	13.5	28.7	272.7	200.3	473.0	3785.1	3701.7	7486.8
1975	20.4	4.8	25.2	0	20.7	18.4	39.1	390.4	327.0	717.4	3763.0	3589.6	7352.6
1976	27.4	13.0	40.4	0	25.8	29.4	55.2	457.2	434.4	891.6	4127.9	4473.4	8601.3
1977	25.7	13.5	39.2	0	31.7	38.1	69.8	506.2	573.8	1080.0	4312.6	4836.8	9149.4
1978	29.4	16.5	45.9	0	34.7	43.6	78.3	634.9	755.3	1390.2	4603.4	5431.0	10034.4
1979	32.2	19.5	51.7	0	39.7	47.9	87.6	732.4	836.0	1568.4	4898.4	5710.0	10608.4
1980	33.5	20.0	53.5	0	40.0	56.5	96.5	806.7	1005.2	1811.9	4731.2	5755.5	10486.7
PRODUCING CAPACITY													
1981	*43.0*	*22.0*	*65.0*	*2.7*	*48.6*	*58.0*	*106.6*	*1075.2*	*1267.5*	*2342.7*	*5999.5*	*7283.4*	*13282.9*
1982	*43.0*	*22.0*	*65.0*	*2.7*	*48.6*	*58.0*	*106.6*	*1202.9*	*1383.5*	*2586.4*	*6283.2*	*7685.6*	*13968.8*

4

WORLD TEXTILE GLASS FIBER PRODUCTION & PRODUCING CAPACITY

THOUSAND METRIC TONS

COUNTRY	PRODUCTION							CAPACITY	
	1974	1975	1976	1977	1978	1979	1980	*1981*	*1982*
WEST EUROPE	221	175	224	292	304	310	300	*328*	*330*
EAST EUROPE[a]								*43*	*50*
U.S.A.	310	248	307	357	419	460	393	*653*	*735*
OTHER AMERICAS	25	21	26	26	27	28	30	*37*	*40*
JAPAN	119	65	105	127	146	178	167	*193*	*228*
OTHER A,A & O[b]	10	6	12	13	12	12	13	*25*	*27*
TOTAL ABOVE	**685**	**515**	**674**	**815**	**908**	**988**	**903**	***1279***	***1410***
CHINA	DATA ARE NOT AVAILABLE							*35*	*50*
U.S.S.R.								*100*	*100*

Textile glass fiber is defined on page 93. The textile glass fiber producing capacity, in operable condition, is shown on an annual rate basis as of March 1981 (1981) and December 1982 (1982).

a. The data for East Europe do not include estimates for the U.S.S.R.

b. The Other Africa, Asia & Oceania countries are Australia, India and South Africa.

5

ESTIMATED WORLD CIGARETTE TOW PRODUCTION

THOUSAND METRIC TONS

AREA	1974	1975	1976	1977	1978	1979	1980
EUROPE[a]	48	49	59	67	76	74	74
U.S.A.	124	130	137	146	150	166	185
OTHER AMER.[b]	25	26	27	27	30	33	35
ASIA[c]	30	36	37	39	40	41	41
WORLD TOTAL	**227**	**241**	**260**	**279**	**296**	**314**	**335**

a. Belgium, West Germany, U.S.S.R. & United Kingdom.

b. Brazil, Canada, Colombia, Mexico & Venezuela.

c. Japan and South Korea.

6

WORLD ACETATE STAPLE PRODUCTION & CAPACITY

THOUSAND METRIC TONS

COUNTRY	PRODUCTION							CAPACITY	
	1974	1975	1976	1977	1978	1979	1980	*1981*	*1982*
U.K.	1.9	1.2	0.8	0.7	0.5	0.5	0.3	*0.5*	*0.5*
U.S.A.	9.1	5.5	5.0	3.6	3.2	3.2	3.2	*3.6*	*3.6*
CANADA	3.0	1.6	1.2	1.7	0.6	0	0	*0*	*0*
MEXICO	0.1	0	0	0	0	0	0	*0*	*0*
INDIA	0.2	0.3	0.4	0.2	0.4	0.4	0.1	*0.8*	*0.8*
WORLD TOTAL	**14.3**	**8.6**	**7.4**	**6.2**	**4.7**	**4.1**	**3.6**	***4.9***	***4.9***

6

WORLD RAYON+ACETATE PRODUCTION & PRODUCING CAPACITY BY COUNTRY

THOUSAND METRIC TONS

	WEST EUROPE															
	AUSTRIA			BELGIUM/ NETHERLANDS			FINLAND			FRANCE			WEST GERMANY			GREECE
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y
1974	14.9	88.6	103.5	47.9	23.9	71.8	1.0	36.4	37.4	42.1	83.7	125.8	69.4	80.0	149.4	5.4
1975	10.2	74.0	84.2	35.3	10.7	46.0	0.7	29.4	30.1	28.1	55.3	83.4	48.8	43.0	91.8	5.9
1976	15.0	88.9	103.9	39.0	21.4	60.4	0.9	31.2	32.1	24.4	60.3	84.7	66.3	51.0	117.3	6.7
1977	12.6	90.2	102.8	36.2	23.0	59.2	1.2	39.8	41.0	20.8	60.7	81.5	63.7	46.0	109.7	7.2
1978	11.3	96.0	107.3	36.0	23.6	59.6	1.2	42.8	44.0	19.3	55.2	74.5	59.7	49.0	108.7	7.2
1979	12.0	98.8	110.8	36.1	26.9	63.0	1.2	48.0	49.2	18.5	58.9	77.4	58.1	50.0	108.1	7.2
1980	15.3	100.6	115.9	33.8	22.0	55.8	0.6	47.2	47.8	16.4	49.6	66.0	65.2	46.0	111.2	7.3
PRODUCING CAPACITY																
1981	*16.0*	*106.0*	*122.0*	*43.6*	*30.0*	*73.6*	*0*	*53.0*	*53.0*	*20.0*	*65.0*	*85.0*	*69.0*	*55.0*	*124.0*	*7.5*
1982	*16.0*	*106.0*	*122.0*	*43.6*	*30.0*	*73.6*	*0*	*53.0*	*53.0*	*8.0*	*65.0*	*73.0*	*69.0*	*55.0*	*124.0*	*7.5*

	WEST EUROPE *(Continued)*																
	ITALY			NOR-WAY	PORTUGAL			SPAIN			SWEDEN			SWITZ-ERLAND	TURKEY		
YEAR	Y	S	TOT	S	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	Y	S	TOT
1974	54.2	85.4	139.6	28.9	2.9	1.4	4.3	22.0	46.0	68.0	2.5	32.6	35.1	4.1	0.4	5.5	5.9
1975	41.3	46.3	87.6	18.4	2.4	1.1	3.5	16.4	35.8	52.2	1.1	18.5	19.6	3.7	0.3	3.7	4.0
1976	46.7	59.8	106.5	26.1	2.5	1.4	3.9	15.6	41.0	56.6	0	30.4	30.4	4.4	0.3	3.9	4.2
1977	44.4	62.3	106.7	24.6	2.6	1.4	4.0	15.0	43.1	58.1	0	33.1	33.1	4.7	0.3	4.0	4.3
1978	39.3	46.9	86.2	28.4	2.1	1.2	3.3	13.8	46.6	60.4	0	36.9	36.9	4.1	0.3	4.0	4.3
1979	38.4	39.0	77.4	29.3	2.5	1.7	4.2	12.6	45.3	57.9	0	36.9	36.9	3.3	0.3	6.0	6.3
1980	36.6	27.5	64.1	28.4	2.7	0.8	3.5	12.9	40.1	53.0	0	36.5	36.5	1.8	0.3	5.0	5.3
PRODUCING CAPACITY																	
1981	*47.2*	*35.0*	*82.2*	*32.0*	*4.0*	*2.0*	*6.0*	*18.8*	*59.0*	*77.8*	*0*	*40.0*	*40.0*	*5.0*	*0.5*	*8.0*	*8.5*
1982	*47.2*	*35.0*	*82.2*	*32.0*	*4.0*	*2.0*	*6.0*	*18.8*	*59.0*	*77.8*	*0*	*40.0*	*40.0*	*5.0*	*0.5*	*8.0*	*8.5*

	. WEST EUROPE *(Continued)*						EAST EUROPE									
	UNITED KINGDOM			TOTAL WEST EUROPE			BULGARIA			CZECHOSLOVAKIA			GERMAN DEM. REP.			HUN-GARY
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	S
1974	70.1	147.1	217.2	**338.9**	**659.5**	**996.4**	2.0	16.0	18.0	20.3	50.5	70.8	34.0	132.0	166.0	9.2
1975	62.5	126.7	189.2	**256.7**	**462.9**	**719.6**	2.5	19.0	21.5	21.4	49.6	71.0	32.9	135.6	168.5	8.8
1976	70.6	118.6	189.2	**292.4**	**534.0**	**826.4**	3.0	23.6	26.6	21.9	50.3	72.2	36.2	136.8	173.0	9.0
1977	62.6	113.6	176.2	**271.3**	**541.8**	**813.1**	3.0	25.7	28.7	22.0	50.6	72.6	36.0	131.0	167.0	9.1
1978	59.7	124.4	184.1	**254.0**	**555.0**	**809.0**	3.2	27.8	31.0	21.5	49.5	71.0	34.0	129.2	163.2	9.0
1979	59.2	139.2	198.4	**249.4**	**580.0**	**829.4**	3.2	30.0	33.2	22.0	36.0	58.0	35.0	130.0	165.0	8.6
1980	36.7	109.3	146.0	**229.6**	**513.0**	**742.6**	3.3	33.0	36.3	19.8	34.9	54.7	36.5	132.0	168.5	8.4
PRODUCING CAPACITY																
1981	*37.0*	*125.5*	*162.5*	*268.6*	*610.5*	*879.1*	*5.0*	*42.0*	*47.0*	*25.0*	*57.0*	*82.0*	*38.5*	*145.0*	*183.5*	*10.0*
1982	*37.0*	*111.5*	*148.5*	*256.6*	*596.5*	*853.1*	*5.0*	*42.0*	*47.0*	*25.0*	*57.0*	*82.0*	*38.5*	*145.0*	*183.5*	*10.0*

	EAST EUROPE *(Continued)*														
	POLAND			ROMANIA			U.S.S.R.			YUGOSLAVIA			TOTAL EAST EUROPE		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	30.5	66.6	97.1	14.2	48.9	63.1	267.0	301.6	568.6	15.6	55.0	70.6	**383.6**	**679.8**	**1063.4**
1975	28.3	67.4	95.7	14.0	48.9	62.9	281.4	309.0	590.4	14.0	49.9	63.9	**394.5**	**688.2**	**1082.7**
1976	28.7	66.9	95.6	11.0	53.9	64.9	286.1	325.8	611.9	15.1	50.0	65.1	**402.0**	**716.3**	**1118.3**
1977	28.6	67.1	95.7	9.0	50.4	59.4	295.0	334.0	629.0	14.9	56.0	70.9	**408.5**	**723.9**	**1132.4**
1978	28.0	65.4	93.4	9.5	53.0	62.5	300.0	335.0	635.0	15.0	57.0	72.0	**411.2**	**725.9**	**1137.1**
1979	27.2	56.6	83.8	9.7	55.0	64.7	298.0	337.0	635.0	15.5	58.0	73.5	**410.6**	**711.2**	**1121.8**
1980	25.3	60.9	86.2	9.5	54.0	63.5	305.0	345.0	650.0	15.0	58.0	73.0	**414.4**	**726.2**	**1140.6**
PRODUCING CAPACITY															
1981	*31.5*	*71.5*	*103.0*	*10.0*	*55.0*	*65.0*	*340.0*	*360.0*	*700.0*	*17.0*	*60.0*	*77.0*	*467.0*	*800.5*	*1267.5*
1982	*31.5*	*71.5*	*103.0*	*10.0*	*170.0*	*180.0*	*340.0*	*360.0*	*700.0*	*17.0*	*60.0*	*77.0*	*467.0*	*915.5*	*1382.5*

Y means yarn+monofilaments. **S** means staple+tow. **TOT** means total.

The producing capacity, in operable condition, is shown on an annual basis as of March 1981 (1981) and December 1982 (1982).

These totals do not include data for the Indonesian pilot plant nor production of cellulosic fibers in North Korea.

Production and producing capacity by country, divided as between rayon and acetate yarn, is given on page 89. Also note page 86 for data on production of acetate staple and cigarette tow.

WORLD RAYON+ACETATE PRODUCTION & PRODUCING CAPACITY BY COUNTRY *(Continued)*

THOUSAND METRIC TONS

	U.S.A.			OTHER AMERICAS											
				ARGENTINA			BRAZIL			CANADA			CHILE		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	241.9	301.8	543.7	8.6	9.4	18.0	35.9	17.8	53.7	14.6	26.1	40.7	1.1	2.5	3.6
1975	166.1	173.7	339.8	7.3	7.2	14.5	30.7	18.5	49.2	13.1	14.6	27.7	0.7	2.2	2.9
1976	160.8	220.6	381.4	5.3	5.0	10.3	34.2	19.7	53.9	5.7	21.2	26.9	1.0	3.0	4.0
1977	160.0	242.7	402.7	5.5	5.7	11.2	28.8	21.7	50.5	11.0	26.2	37.2	0.9	2.9	3.8
1978	164.6	245.7	410.3	4.4	3.8	8.2	24.1	22.4	46.5	12.3	26.8	39.1	0.8	3.3	4.1
1979	169.4	252.4	421.8	5.1	4.7	9.8	24.4	25.5	49.9	14.1	31.3	45.4	1.0	3.0	4.0
1980	161.3	204.3	365.6	3.6	4.0	7.6	26.0	25.3	51.3	14.0	30.0	44.0	1.0	3.0	4.0
PRODUCING CAPACITY															
1981	*175.1*	*236.8*	*411.9*	*10.0*	*10.0*	*20.0*	*25.2*	*30.4*	*55.6*	*14.5*	*33.6*	*48.1*	*2.0*	*5.4*	*7.4*
1982	*175.1*	*236.8*	*411.9*	*10.0*	*10.0*	*20.0*	*25.2*	*30.4*	*55.6*	*14.5*	*33.6*	*48.1*	*2.0*	*5.4*	*7.4*

	OTHER AMERICAS *(Continued)*														
	COLOMBIA			CUBA			MEXICO			PERU	URU-GUAY	VENE-ZUELA	TOTAL OTHER AMERICAS		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	Y	Y	Y	S	TOT
1974	3.8	3.2	7.0	2.0	3.1	5.1	18.4	12.7	31.1	1.7	0.8	3.8	90.7	74.8	165.5
1975	3.9	1.7	5.6	2.3	3.7	6.0	18.4	11.8	30.2	1.8	1.1	3.3	82.6	59.7	142.3
1976	3.4	0	3.4	2.5	3.5	6.0	19.5	11.4	30.9	2.1	1.1	2.8	77.6	63.8	141.4
1977	3.3	0	3.3	2.4	3.7	6.1	18.7	8.8	27.5	1.3	1.2	3.0	76.1	69.0	145.1
1978	3.4	0	3.4	2.3	3.7	6.0	17.2	10.5	27.7	1.1	1.3	3.0	69.9	70.5	140.4
1979	3.4	0	3.4	2.4	3.8	6.2	17.1	10.3	27.4	1.3	1.4	3.0	73.2	78.6	151.8
1980	2.4	0	2.4	2.2	3.8	6.0	16.8	11.0	27.8	1.1	1.3	2.8	71.2	77.1	148.3
PRODUCING CAPACITY															
1981	*3.5*	*0*	*3.5*	*3.0*	*5.0*	*8.0*	*21.8*	*12.0*	*33.8*	*1.7*	*1.5*	*3.0*	*86.2*	*96.4*	*182.6*
1982	*3.5*	*0*	*3.5*	*3.0*	*5.0*	*8.0*	*21.8*	*12.0*	*33.8*	*1.7*	*1.5*	*3.0*	*86.2*	*96.4*	*182.6*

	JAPAN			OTHER AFRICA, ASIA & OCEANIA													
				AUS-TRALIA	BANG-LADESH	PEOPLE'S REPUBLIC OF CHINA			REPUBLIC OF CHINA (TAIWAN)			EGYPT			INDIA		
YEAR	Y	S	TOT	Y	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	115.6	328.7	444.3	6.0	1.4	44.5	55.4	99.9	3.1	44.8	47.9	5.3	1.9	7.2	56.9	77.6	134.5
1975	103.2	255.6	358.8	3.0	1.6	49.0	61.0	110.0	2.7	46.5	49.2	6.3	3.3	9.6	54.2	67.1	121.3
1976	109.3	250.3	359.6	0	0.9	55.0	70.0	125.0	3.1	65.4	68.5	6.3	3.2	9.5	60.6	83.7	144.3
1977	107.4	272.7	380.1	0	1.4	61.0	77.0	138.0	3.0	66.6	69.6	6.2	2.4	8.6	58.9	87.1	146.0
1978	109.8	279.4	389.2	0	3.0	65.0	80.0	145.0	3.1	69.9	73.0	6.0	3.7	9.7	62.4	92.0	154.4
1979	114.3	290.4	404.7	0	4.1	68.0	85.0	153.0	3.0	70.0	73.0	5.8	4.2	10.0	60.5	92.2	152.7
1980	119.3	278.0	397.3	0	3.5	75.0	95.0	170.0	3.0	75.3	78.3	6.0	4.0	10.0	57.7	74.7	132.4
PRODUCING CAPACITY																	
1981	*136.0*	*317.2*	*453.2*	*0*	*5.4*	*100.0*	*130.0*	*230.0*	*4.0*	*88.0*	*92.0*	*7.0*	*5.4*	*12.4*	*66.0*	*111.3*	*177.3*
1982	*136.0*	*317.2*	*453.2*	*0*	*5.4*	*100.0*	*130.0*	*230.0*	*4.0*	*88.0*	*92.0*	*7.0*	*5.4*	*12.4*	*66.0*	*111.3*	*177.3*

	OTHER AFRICA, ASIA & OCEANIA *(Continued)*												WORLD TOTAL		
	INDO-NESIA	IRAQ			REPUBLIC OF KOREA			PAKI-STAN	THAI-LAND	TOTAL OTHER A, A & O					
YEAR	S	Y	S	TOT	Y	S	TOT	Y	S	Y	S	TOT	Y	S	TOT
1974	0	3.0	5.6	8.6	9.6	0	9.6	3.8	0	133.6	185.3	318.9	1302.3	2229.9	3532.2
1975	0	3.0	5.5	8.5	9.8	0	9.8	2.9	0	132.5	183.4	315.9	1135.6	1823.5	2959.1
1976	0	3.0	5.5	8.5	14.2	7.1	21.3	2.6	2.0	145.7	236.9	382.6	1187.8	2021.9	3209.7
1977	0	2.8	5.3	8.1	12.8	9.7	22.5	2.6	10.7	148.7	258.8	407.5	1172.0	2108.9	3280.9
1978	0	3.0	5.5	8.5	12.7	10.0	22.7	2.3	13.5	157.5	274.6	432.1	1167.0	2151.1	3318.1
1979	0	2.9	5.4	8.3	13.2	10.4	23.6	2.0	15.1	159.5	282.3	441.8	1176.4	2194.9	3371.3
1980	0	3.0	5.5	8.5	12.4	15.0	27.4	2.7	16.4	163.3	285.9	449.2	1159.1	2084.5	3243.6
PRODUCING CAPACITY															
1981	*0*	*3.5*	*6.5*	*10.0*	*14.3*	*28.2*	*42.5*	*3.3*	*18.3*	*203.5*	*387.7*	*591.2*	*1336.4*	*2449.1*	*3785.5*
1982	*10.0*	*3.5*	*6.5*	*10.0*	*14.3*	*28.2*	*42.5*	*3.3*	*18.3*	*203.5*	*397.7*	*601.2*	*1324.4*	*2560.1*	*3884.5*

8

RAYON VS. ACETATE FILAMENT YARN PRODUCTION & PRODUCING CAPACITY BY COUNTRY

THOUSAND METRIC TONS

	WEST EUROPE																				
	AUSTRIA		BELGIUM/ NETHERLANDS			FRANCE			WEST GERMANY			ITALY			SPAIN			SWEDEN	UNITED KINGDOM		
YEAR	H	R	H	R	A	H	R	A	H	R+C	A	H	R+C	A	H	R	A	H	H	R	A
1974	11	4	17	24	7	19	18	5	41	25	3	13	25	16	8	12	2	3	21	16	33
1975	7	3	12	17	6	13	12	3	25	21	3	9	18	14	5	9	2	1	19	12	32
1976	11	4	17	17	5	9	13	2	40	24	2	11	18	18	6	8	2	0	19	18	34
1977	9	4	17	14	5	8	13	0	38	24	2	11	15	18	7	6	2	0	17	12	33
1978	8	3	15	15	6	9	10	0	35	23	2	11	11	17	6	5	3	0	15	10	35
1979	8	4	14	15	7	9	9	0	33	23	2	11	9	18	5	5	3	0	11	10	38
1980	11	4	16	16	2	8	9	0	40	24	1	11	5	21	6	4	3	0	1	2	34
PRODUCING CAPACITY																					
1981	*12*	*4*	*19*	*17*	*8*	*10*	*10*	*0*	*43*	*24*	*2*	*12*	*12*	*23*	*8*	*7*	*4*	*0*	*0*	*0*	*37*
1982	*12*	*4*	*19*	*17*	*8*	*0*	*8*	*0*	*43*	*24*	*2*	*12*	*12*	*23*	*8*	*7*	*4*	*0*	*0*	*0*	*37*

	W. EUROPE *(Cont.)*				EAST EUROPE																
	OTHER[a]	TOTAL WEST EUROPE			BULGARIA	CZECHOSLOVAKIA		GERMAN DEM. REP.		POLAND		ROMANIA		U.S.S.R.			YUGOSLAVIA		TOTAL EAST EUROPE		
YEAR	R	H	R+C	A	R	H	R	H	R	H	R	H	R	H	R+C	A	H	R	H	R+C	A
1974	13	133	137	66	2	7	13	13	21	9	22	10	4	145	78	44	8	8	192	148	44
1975	14	91	106	60	3	9	12	13	20	8	20	10	4	159	75	47	7	8	206	142	47
1976	14	113	116	63	3	9	13	14	22	8	21	7	4	160	77	49	7	8	205	148	49
1977	16	107	104	60	3	10	12	13	23	8	21	6	3	165	80	50	7	8	209	150	50
1978	15	99	92	63	3	10	12	13	21	8	20	6	3	165	80	55	7	8	209	147	55
1979	15	91	90	68	3	10	12	13	22	7	20	6	4	163	80	55	7	9	206	150	55
1980	12	93	76	61	3	9	11	14	23	6	19	6	4	165	85	55	7	8	207	153	55
PRODUCING CAPACITY																					
1981	*17*	*104*	*91*	*74*	*5*	*11*	*14*	*14*	*24*	*9*	*23*	*6*	*4*	*170*	*100*	*70*	*8*	*9*	*218*	*179*	*70*
1982	*17*	*94*	*89*	*74*	*5*	*11*	*14*	*14*	*24*	*9*	*23*	*6*	*4*	*170*	*100*	*70*	*8*	*9*	*218*	*179*	*70*

				OTHER AMERICAS																		
	U.S.A.			ARGENTINA			BRAZIL			CANADA	CHILE	COLOMBIA		CUBA		MEXICO			PERU		URUGUAY	VENEZUELA
YEAR	H	R+C	A	H	R	A	H	R	A	A	R	R	A	H	R	H	R	A	R	A	A	A
1974	51	27	164	1	5	2	10	18	8	15	1	1	3	2	+	1	7	10	1	1	1	4
1975	21	8	137	1	4	2	13	11	7	13	1	1	3	2	+	3	7	9	1	1	1	3
1976	24	7	130	1	3	1	16	12	6	6	1	0	3	3	+	3	7	10	1	1	1	3
1977	25	7	128	1	3	1	11	12	6	11	1	0	3	2	+	3	7	9	1	1	1	3
1978	21	7	137	1	2	1	8	12	4	12	1	0	4	2	+	3	6	9	+	1	1	3
1979	19	7	143	1	3	1	7	15	3	14	1	0	4	2	+	3	6	8	+	1	1	3
1980	14	7	140	1	2	1	6	16	4	14	1	0	2	2	+	3	6	8	0	1	1	3
PRODUCING CAPACITY																						
1981	*21*	*7*	*147*	*2*	*5*	*3*	*4*	*16*	*5*	*14*	*2*	*0*	*3*	*3*	+	*5*	*7*	*10*	*0*	*2*	*1*	*4*
1982	*21*	*7*	*147*	*2*	*5*	*3*	*4*	*16*	*5*	*14*	*2*	*0*	*3*	*3*	+	*5*	*7*	*10*	*0*	*2*	*1*	*4*

							OTHER AFRICA, ASIA & OCEANIA															
	TOTAL OTHER AMERICAS			JAPAN			AUSTRALIA		INDIA			PAKISTAN		REP. OF KOREA		OTHER[b]	TOTAL OTHER A, A & O			WORLD TOTAL		
YEAR	H	R	A	H	R+C	A	H	A	H	R	A	R	A	R	A	R	H	R	A	H	R+C	A
1974	14	33	44	5	80	31	4	2	18	37	2	+	4	8	2	56	22	101	10	417	526	359
1975	19	25	39	5	74	24	1	2	19	32	2	0	3	8	2	63	20	103	9	382	458	318
1976	23	24	31	5	75	29	0	0	18	41	2	0	3	12	2	68	18	121	7	388	491	309
1977	17	24	35	4	74	29	0	0	17	40	2	0	3	11	2	74	17	125	7	379	484	300
1978	14	21	35	4	78	28	0	0	18	42	2	0	2	11	2	80	18	133	6	365	478	324
1979	13	25	35	3	80	31	0	0	17	42	2	0	2	11	2	84	17	137	6	349	480	338
1980	12	25	34	3	84	32	0	0	14	42	2	0	3	10	2	90	14	142	7	343	487	329
PRODUCING CAPACITY																						
1981	*14*	*30*	*42*	*10*	*92*	*34*	*0*	*0*	*20*	*44*	*3*	*0*	*3*	*12*	*3*	*118*	*20*	*174*	*9*	*387*	*573*	*376*
1982	*14*	*30*	*42*	*10*	*92*	*34*	*0*	*0*	*20*	*44*	*3*	*0*	*3*	*12*	*3*	*118*	*20*	*174*	*9*	*377*	*571*	*376*

H means high tenacity (tire & industrial type) viscose rayon yarn. **R** means regular+intermediate tenacity viscose rayon yarn. **C** means cuprammonium rayon yarn. **A** means acetate+triacetate yarn.

[a] "Other West Europe" comprises Finland, Greece, Portugal, Switzerland and Turkey.

[b] "Other Africa, Asia & Oceania" comprises Bangladesh, People's Republic of China, Republic of China (Taiwan), Egypt and Iraq.

1979 MAN-MADE FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY (EXCEPT OLEFIN & TEXTILE GLASS)

THOUSAND METRIC TONS

COUNTRY & AREA	RAYON+ACETATE YARN				RAYON+ACETATE STAPLE				NON-CELLULOSIC YARN				NON-CELLULOSIC STAPLE				TOTAL MAN-MADE FIBERS					
	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMPORT	EXPORT	R+A SPUN	N-C SPUN	NET AVAIL
WEST EUROPE																						
AUSTRIA	12.0	5.5	10.4	7.1	98.8	2.4	76.9	24.3	0	25.7	3.4	22.3	29.3	19.5	18.0	30.8	140.1	53.1	108.7	-12.5	-2.0	70.0
BENELUX	36.1	10.5	36.1	10.5	26.9	29.6	32.3	24.2	95.2	109.1	114.1	90.2	40.4	118.5	66.2	92.7	198.6	267.7	248.7	+1.9	+14.2	233.7
EIRE (IRELAND)	0	2.3	--	2.3	0	1.2	0.5	0.7	10.8	22.7	16.1	17.4	32.0	7.3	28.5	10.8	42.8	33.5	45.1	-0.4	-2.7	28.1
FINLAND	1.2	1.3	0.8	1.7	48.0	1.9	40.6	9.3	0.4	12.6	1.3	11.7	0	11.2	--	11.2	49.6	27.0	42.7	+1.2	+3.7	38.8
FRANCE	18.5	26.7	16.4	28.8	58.9	17.3	35.1	41.1	78.7	88.2	55.3	111.6	145.3	108.2	86.0	167.5	301.4	240.4	192.8	+2.2	-2.7	348.5
GERMANY, WEST	58.1	31.3	38.0	51.4	50.0	45.6	25.2	70.4	338.0	118.3	263.7	192.6	421.5	101.6	293.0	230.1	867.6	296.8	619.9	-1.5	+1.3	544.3
GREECE	7.2	1.1	3.5	4.8	0	3.1	0	3.1	9.2	6.5	1.5	14.2	9.5	26.4	2.2	33.7	25.9	37.1	7.2	+0.1	-3.0	52.9
ITALY/MALTA	38.4	22.2	13.6	47.0	39.0	25.3	7.1	57.2	126.6	67.7	91.0	103.3	233.6	174.3	114.6	293.3	437.6	289.5	226.3	-5.3	-45.4	450.1
NORWAY	0	0.7	--	0.7	29.3	1.9	24.9	6.3	0	8.3	0.9	7.4	0	4.8	--	4.8	29.3	15.7	25.8	+0.4	+1.5	21.1
PORTUGAL	2.5	1.4	0.7	3.2	1.7	11.4	--	13.1	1.7	14.3	2.7	13.3	29.2	14.9	2.2	41.9	35.1	42.0	5.6	-2.8	-2.6	66.1
SPAIN	12.6	1.5	1.5	12.6	45.3	10.7	13.8	42.2	71.7	13.6	8.7	76.6	141.4	42.7	34.2	149.9	271.0	68.5	58.2	-3.6	-8.6	269.1
SWEDEN	0	2.9	0.2	2.7	36.9	5.8	34.5	8.2	0.1	18.8	2.7	16.2	0	8.0	0.1	7.9	37.0	35.5	37.5	+0.9	+5.1	41.0
SWITZERLAND	3.3	1.8	3.3	1.8	0	8.9	0.1	8.8	49.1	9.3	58.4	0	30.0	17.4	24.9	22.5	82.4	37.4	86.7	+1.3	-4.8	29.6
TURKEY	0.3	0.4	--	0.7	6.0	2.9	0	8.9	30.0	7.5	--	37.5	77.0	9.9	--	86.9	113.3	20.7	--	--	--	134.0
UNITED KINGDOM	59.2	13.6	40.3	32.5	139.2	32.9	89.5	82.6	171.4	110.4	79.2	202.6	209.7	79.0	142.6	146.1	579.5	235.9	351.6	-2.9	+9.1	470.0
TOTAL WEST EUROPE	249.4	123.2	164.8	207.8	580.0	200.9	380.5	400.4	982.9	633.0	699.0	916.9	1398.9	743.7	812.5	1330.1	3211.2	1700.8	2056.8	-21.0	-36.9	2797.3
U.S.A.	169.4	6.0	20.0	155.4	252.4	7.5	48.3	211.6	1594.5	10.2	140.3	1455.4	1889.2	20.8	298.6	1611.4	3905.5	44.5	516.2	--	-3.9	3429.9
OTHER AMERICAS																						
ARGENTINA	5.1	0.5	1.0	4.6	4.7	0.6	0.6	4.7	29.6	0.8	1.0	29.4	22.6	7.3	0.3	29.6	62.0	9.2	2.9	0	+0.1	68.4
BRAZIL	24.4	0.5	3.6	21.3	25.5	2.9	1.2	27.2	122.5	5.8	1.5	126.8	91.4	5.2	6.3	90.3	263.8	14.4	12.6	--	+0.1	265.7
CANADA	14.1	8.6	4.2	18.5	31.3	4.1	21.9	13.5	73.1	40.0	7.9	105.2	48.5	44.9	6.7	86.7	167.0	97.6	40.7	+0.5	+6.0	230.4
CHILE	1.0	0.4	0	1.4	3.0	0.2	0	3.2	5.0	1.9	0	6.9	2.4	8.6	0	11.0	11.4	11.1	0	0	+0.6	23.1
COLOMBIA	3.4	0.2	0	3.6	0	2.5	0	2.5	28.7	2.8	0	31.5	8.0	4.7	0	12.7	40.1	10.2	0	0	+0.1	50.4
COSTA RICA	0	1.6	0	1.6	0	0.6	0	0.6	2.0	7.5	0	9.5	0	2.5	0	2.5	2.0	12.2	0	+0.5	+0.1	14.8
CUBA	2.4	0.1	0	2.5	3.8	0.4	0	4.2	0	0.9	0	0.9	0	1.3	0	1.3	6.2	2.7	0	0	+1.5	10.4
ECUADOR	0	0.2	0	0.2	0	1.4	0	1.4	3.4	2.9	0	6.3	0	5.8	0	5.8	3.4	10.3	0	0	--	13.7
MEXICO	17.1	0.3	1.1	16.3	10.3	3.3	2.8	10.8	136.1	6.5	2.3	140.3	93.0	5.0	0.1	97.9	256.5	15.1	6.3	0	--	265.3
PERU	1.3	0.1	0.1	1.3	0	0.8	0	0.8	7.0	2.0	0	9.0	21.0	0.6	0	21.6	29.3	3.5	0.1	0	-10.0	22.7
URUGUAY	1.4	0.3	0.3	1.4	0	5.0	0	5.0	1.1	1.2	--	2.3	2.4	2.4	0.3	4.5	4.9	8.9	0.6	-0.1	-0.1	13.0
VENEZUELA	3.0	1.8	0	4.8	0	9.3	0	9.3	11.7	13.2	0	24.9	6.1	1.4	0	7.5	20.8	25.7	0	--	+0.4	46.9
TOTAL OTHER AMERICAS	73.2	14.6	10.3	77.5	78.6	31.1	26.5	83.2	420.2	86.5	12.7	493.0	295.4	89.7	13.7	371.4	867.4	220.9	63.2	+0.9	-1.2	1024.8
JAPAN	114.3	1.4	38.4	78.3	290.4	0.5	113.1	177.8	631.2	16.3	117.1	530.4	731.9	48.9	239.0	541.8	1767.8	67.1	508.6	-1.8	-14.3	1310.4
AFRICA, ASIA & OCEANIA																						
AUSTRALIA/N.Z.	0	3.9	0.2	3.7	0	2.6	0.2	2.4	16.4	12.4	1.0	27.8	0.5	21.4	0.2	21.7	16.9	40.3	1.6	+0.5	+6.3	62.4
BANGLADESH	4.1	--	0.4	3.7	0	--	0	--	0.2	0.9	0	1.1	0	0.1	0	0.1	4.3	1.0	0.4	--	+0.1	5.0
CHINA TAIWAN	3.0	1.6	0.9	3.7	70.0	21.3	18.9	72.4	256.8	12.2	98.8	170.2	264.5	48.8	39.7	273.6	594.3	83.9	158.3	-6.3	-63.4	450.2
EGYPT	5.8	0.2	0	6.0	4.2	--	0	4.2	1.5	4.6	0	6.1	0.4	5.7	0	6.1	11.9	10.5	0	--	--	22.4
INDIA	60.5	1.1	2.0	59.6	92.2	32.4	0	124.6	35.8	8.4	0.3	43.9	27.8	16.2	0.2	43.8	216.3	58.1	2.5	--	0	271.9
INDONESIA	0	4.7	0	4.7	0	23.3	0	23.3	22.7	16.5	0.6	38.6	50.3	7.9	0	58.2	73.0	52.4	0.6	+0.2	+1.3	126.3
IRAN	0	2.8	0	2.8	0	22.4	0	22.4	5.0	6.7	0	11.7	0	15.9	0	15.9	5.0	47.8	0	+0.3	+3.4	56.5
IRAQ	2.9	0.8	0	3.7	5.4	1.7	0	7.1	0	9.2	0	9.2	0	4.1	0	4.1	8.3	15.8	0	+0.3	+2.2	26.6
ISRAEL	0	0.8	0	0.8	0	0.8	0	0.8	9.9	10.5	4.2	16.2	6.4	5.2	2.5	9.1	16.3	17.3	6.7	+0.1	+0.5	27.5
KOREA, REPUBLIC OF	13.2	6.4	4.0	15.6	10.4	8.2	1.4	17.2	237.2	22.5	13.7	246.0	240.1	23.4	6.4	257.1	500.9	60.5	25.5	-0.7	-26.7	508.5
MALAYSIA	0	0.6	--	0.6	0	2.6	0	2.6	0	3.0	0.1	2.9	35.0	5.9	--	40.9	35.0	12.1	0.1	+0.1	+0.8	47.9
NIGERIA	0	1.6	0	1.6	0	0.7	0	0.7	3.0	10.7	1.0	12.7	4.0	1.0	2.1	2.9	7.0	14.0	3.1	+0.6	+2.1	20.6
PAKISTAN	2.0	2.4	0	4.4	0	9.9	--	9.9	2.0	13.5	0	15.5	0	10.7	0	10.7	4.0	36.5	--	0	+0.6	41.1
PHILIPPINES	0	0.7	0	0.7	0	8.4	0	8.4	25.0	5.6	2.1	28.5	11.6	21.2	0	32.8	36.6	35.9	2.1	--	+0.1	70.5
SOUTH AFRICA	0	4.7	--	4.7	0	21.9	0.1	21.8	32.2	12.9	0.5	44.6	19.5	22.8	1.0	41.3	51.7	62.3	1.6	-2.5	+1.7	111.6
THAILAND	0	1.2	0.1	1.1	15.1	1.1	0.1	16.1	39.7	5.5	16.5	28.7	47.6	17.2	4.5	60.3	102.4	25.0	21.2	--	+0.4	106.6
TOTAL A, A & O ABOVE	91.5	33.5	7.6	117.4	197.3	157.3	20.7	333.9	687.4	155.1	138.8	703.7	707.7	227.5	56.6	878.6	1683.9	573.4	223.7	-7.4	-70.6	1955.6
HUNGARY	0	16.1	0.3	15.8	8.6	16.6	6.6	18.6	3.2	8.4	0.5	11.1	14.8	14.5	7.0	22.3	26.6	55.6	14.4	0	--	67.8
POLAND	27.2	1.4	2.6	26.0	56.6	18.8	0	75.4	87.4	18.4	4.7	101.1	65.9	35.8	5.6	96.1	237.1	74.4	12.9	+0.7	0	299.3

See text on page 82.

1980 MAN-MADE FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY (EXCEPT OLEFIN & TEXTILE GLASS)

THOUSAND METRIC TONS

COUNTRY & AREA	RAYON+ACETATE YARN				RAYON+ACETATE STAPLE				NON-CELLULOSIC YARN				NON-CELLULOSIC STAPLE				TOTAL MAN-MADE FIBERS					
	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMPORT	EXPORT	R+A SPUN	N-C SPUN	NET AVAIL
WEST EUROPE																						
AUSTRIA	15.3	3.1	12.5	5.9	100.6	4.0	80.0	24.6	0	23.8	3.6	20.2	25.4	15.8	14.3	26.9	141.3	46.7	110.4	-12.6	-2.0	63.0
BENELUX	33.8	22.1	19.3	36.6	22.0	29.7	35.3	16.4	71.9	87.4	30.9	128.4	32.4	77.1	22.9	86.6	160.1	216.3	108.4	+1.9	+14.3	284.2
EIRE (IRELAND)	0	1.9	--	1.9	0	1.8	1.0	0.8	11.0	17.9	7.5	21.4	32.0	4.7	31.8	4.9	43.0	26.3	40.3	-0.4	-2.6	26.0
FINLAND	0.6	1.3	0.6	1.3	47.2	2.7	44.8	5.1	0.4	11.7	1.0	11.1	0	12.3	--	12.3	48.2	28.0	46.4	+1.3	+3.7	34.8
FRANCE	16.4	26.5	16.4	26.5	49.6	16.6	35.7	30.5	65.3	81.6	39.9	107.0	126.7	97.5	12.7	211.5	258.0	222.2	104.7	+2.3	-2.7	375.1
GERMANY, WEST	65.2	27.7	43.1	49.8	46.0	35.6	29.2	52.4	317.7	99.6	256.2	161.1	402.4	90.6	286.0	207.0	831.3	253.5	614.5	+2.2	+9.4	481.9
GREECE	7.3	0.8	3.5	4.6	0	2.7	0	2.7	9.0	4.2	1.5	11.7	10.0	24.1	2.2	31.9	26.3	31.8	7.2	0	--	50.9
ITALY/MALTA	36.6	23.2	12.3	47.5	27.5	29.1	2.6	54.0	124.9	58.0	92.8	90.1	229.9	119.2	126.2	222.9	418.9	229.5	233.9	-5.3	-39.5	369.7
NORWAY	0	0.9	--	0.9	28.4	1.0	23.3	6.1	0	7.1	0.7	6.4	0	4.1	--	4.1	28.4	13.1	24.0	+0.4	+2.0	19.9
PORTUGAL	2.7	2.0	0.5	4.2	0.8	10.7	--	11.5	1.5	16.3	2.4	15.4	29.6	13.9	1.6	41.9	34.6	42.9	4.5	-2.8	-2.6	67.6
SPAIN	12.9	0.5	2.7	10.7	40.1	10.8	10.1	40.8	64.0	15.8	8.9	70.9	142.0	49.0	40.4	150.6	259.0	76.1	62.1	-2.1	-11.5	259.4
SWEDEN	0	2.5	0.3	2.2	36.5	5.3	31.1	10.7	0.1	30.9	3.1	27.9	0	8.1	--	8.1	36.6	46.8	34.5	+0.5	+1.3	50.7
SWITZERLAND	1.8	1.8	3.2	0.4	0	8.7	--	8.7	51.2	8.4	56.1	3.5	23.7	13.7	19.0	18.4	76.7	32.6	78.3	+0.6	-3.7	27.9
TURKEY	0.3	1.1	--	1.4	5.0	1.8	0	6.8	28.0	10.8	--	38.8	70.0	13.4	--	83.4	103.3	27.1	--	0	0	130.4
UNITED KINGDOM	36.7	18.6	34.2	21.1	109.3	33.1	95.7	46.7	127.9	93.1	82.1	138.9	161.7	60.9	125.8	96.8	435.6	205.7	337.8	-3.9	+9.8	309.4
TOTAL WEST EUROPE	229.6	134.0	148.6	215.0	513.0	183.8	388.8	317.8	872.9	568.6	588.7	852.8	1285.8	604.4	682.9	1207.3	2901.3	1498.8	1807.0	-17.9	-24.1	2550.9
U.S.A.	161.3	3.8	18.7	146.4	204.3	4.7	32.2	176.8	1411.8	9.7	190.8	1230.5	1830.5	17.4	332.2	1515.7	3607.7	35.8	573.9	–	-4.5	3064.9
OTHER AMERICAS																						
ARGENTINA	3.6	1.0	1.1	3.5	4.0	0.8	0.7	4.1	22.0	2.4	1.2	23.2	16.0	6.9	0.3	22.6	45.6	11.1	3.3	0	+0.2	53.6
BRAZIL	26.0	1.5	3.8	23.7	25.3	3.1	0.9	27.5	136.4	6.9	0.8	142.5	95.0	7.9	4.5	98.4	282.7	19.4	10.0	--	+0.1	292.2
CANADA	14.0	7.7	5.8	15.9	30.0	4.2	21.0	13.2	74.0	38.2	11.9	100.3	48.0	36.7	9.0	75.7	166.0	86.8	47.7	+0.2	+5.3	210.6
CHILE	1.0	0.3	0	1.3	3.0	0.4	0	3.4	5.0	1.4	0	6.4	2.5	7.5	0	10.0	11.5	9.6	0	0	+0.6	21.7
COLOMBIA	2.4	0.2	0	2.6	0	2.5	0	2.5	23.0	5.7	0	28.7	10.9	4.3	0	15.2	36.3	12.7	0	--	+0.1	49.1
COSTA RICA	0	1.6	0	1.6	0	0.2	0	0.2	3.0	7.5	0	10.5	0	1.5	0	1.5	3.0	10.8	0	0	+0.1	13.9
CUBA	2.2	0.3	0	2.5	3.8	0.4	0	4.2	0	1.3	0	1.3	0	2.0	0	2.0	6.0	4.0	0	+0.1	+2.3	12.4
ECUADOR	0	0.2	0	0.2	0	1.1	0	1.1	3.5	2.8	0	6.3	0	4.8	0	4.8	3.5	8.9	0	0	+0.1	12.5
MEXICO	16.8	0.2	1.2	15.8	11.0	4.2	2.8	12.4	137.0	7.7	2.3	142.4	102.4	7.6	0.2	109.8	267.2	19.7	6.5	--	+0.1	280.5
PERU	1.1	0.1	0.1	1.1	0	0.7	0	0.7	7.0	3.7	0	10.7	21.5	5.9	0	27.4	29.6	10.1	0.1	0	+0.1	40.0
URUGUAY	1.3	0.2	0.3	1.2	0	4.9	0	4.9	1.0	0.8	--	1.8	2.5	1.9	0.3	4.1	4.8	7.8	0.6	-0.1	--	11.9
VENEZUELA	2.8	1.8	0	4.6	0	9.3	0	9.3	11.5	7.3	0	18.8	6.0	2.6	0	8.6	20.3	21.0	0	--	+0.2	41.5
TOTAL OTHER AMERICAS	71.2	16.1	12.3	74.0	77.1	31.8	25.4	83.6	423.4	85.7	16.2	492.9	304.8	86.6	14.3	380.1	876.5	222.2	68.2	+0.2	+0.2	1030.9
JAPAN	119.2	1.5	42.7	78.1	278.0	0.3	135.3	143.0	825.7	25.1	114.5	536.3	731.1	22.2	243.5	509.8	1754.1	49.1	536.0	-4.5	-39.8	1222.9
AFRICA, ASIA & OCEANIA																						
AUSTRALIA/N.Z.	0	3.5	0.2	3.3	0	3.0	0.3	2.7	13.0	11.6	0	24.6	--	17.4	0.2	17.2	13.0	35.5	0.7	+0.2	+4.9	52.9
BANGLADESH	3.5	0	0.4	3.1	0	7.0	0	7.0	3.0	0.6	0	3.6	0	0.1	0	0.1	6.5	7.7	0.4	0	+0.1	13.9
CHINA TAIWAN	3.0	1.7	2.9	1.8	75.3	21.5	19.0	77.8	264.7	9.9	111.2	163.4	293.2	48.7	52.6	289.3	636.2	81.8	185.7	--	--	532.3
EGYPT	6.0	0.7	0	6.7	4.0	0	0	4.0	1.8	4.6	0	6.4	5.0	6.5	0	11.5	16.8	11.8	0	0	+0.2	28.8
INDIA	57.7	1.2	2.0	56.9	74.7	45.2	0	119.9	39.7	9.3	0.3	48.7	30.8	6.3	0.2	36.9	202.9	62.0	2.5	0	--	262.4
INDONESIA	0	4.8	0	4.8	0	23.4	0	23.4	31.5	13.8	0.6	44.7	53.9	13.6	0	67.5	85.4	55.6	0.6	+0.2	+1.2	141.8
IRAN	0	4.8	0	4.8	0	43.2	0	43.2	4.5	13.1	0	17.6	0	33.2	0	33.2	4.5	94.3	0	+0.2	+9.9	108.9
IRAQ	3.0	1.0	0	4.0	5.5	1.6	0	7.1	0	6.7	0	6.7	0	4.7	0	4.7	8.5	14.0	0	+0.3	+3.0	25.8
ISRAEL	0	0.8	0	0.8	0	0.9	0	0.9	10.5	8.2	4.1	14.6	6.6	4.2	2.4	8.4	17.1	14.1	6.5	0	+0.4	25.1
KOREA, REPUBLIC OF	12.4	6.7	3.4	15.7	15.0	7.9	1.0	21.9	255.2	11.7	17.9	249.0	281.2	13.4	29.5	265.1	563.8	39.7	51.8	-3.8	-56.9	491.0
MALAYSIA	0	0.6	--	0.6	0	12.3	1.4	10.9	0	12.1	0.1	12.0	36.0	15.1	4.7	46.4	36.0	40.1	6.2	+0.1	-3.5	66.5
NIGERIA	0	2.2	0	2.2	0	2.1	0	2.1	3.5	10.0	1.0	12.5	4.0	2.1	2.2	3.9	7.5	16.4	3.2	+1.2	+4.9	26.8
PAKISTAN	2.7	2.3	0	5.0	0	13.0	0	13.0	1.5	8.1	0	9.6	0	11.6	0	11.6	4.2	35.0	0	0	+0.5	39.7
PHILIPPINES	0	0.5	0	0.5	0	15.7	0	15.7	30.0	3.9	2.1	31.8	14.0	12.5	0	26.5	44.0	32.6	2.1	--	+0.1	74.6
SOUTH AFRICA	0	5.6	--	5.6	0	21.0	0.1	20.9	33.5	11.3	0.5	44.3	20.0	37.2	1.1	56.1	53.5	75.1	1.7	--	+0.6	127.5
THAILAND	0	1.2	0.1	1.1	16.4	1.0	0.1	17.3	40.0	4.3	16.4	27.9	56.5	17.4	4.5	69.4	112.9	23.9	21.1	--	+0.5	116.2
TOTAL A, A & O ABOVE	88.3	37.6	8.8	116.9	190.9	218.8	21.8	387.8	732.4	138.2	154.2	717.4	801.2	244.0	87.4	947.8	1812.8	838.8	282.5	-1.8	-34.1	2134.2
HUNGARY	0	16.0	0.3	15.7	8.4	16.5	6.6	18.3	4.8	8.4	0.6	12.6	14.2	14.6	6.9	21.9	27.4	55.5	14.4	0	+3.4	71.9
POLAND	25.3	2.4	2.5	25.2	60.9	18.7	0.2	79.4	89.3	18.5	4.6	103.2	68.4	35.9	5.6	98.7	243.9	75.5	12.9	+0.4	+4.5	311.4

See text on page 82.

WORLD OLEFIN FIBER PRODUCTION

THOUSAND METRIC TONS

COUNTRY	1974	1975	1976	1977	1978	1979	1980
WEST EUROPE							
BENELUX	18	22	34	41	49	56	57
DENMARK	8	8	7	12	14	15	14
FRANCE	21	25	35	26	30	24	27
GERMANY, WEST	31	36	46	51	52	57	53
ITALY	48	52	55	53	59	61	57
IRELAND (EIRE)	6	4	6	6	5	6	9
UNITED KINGDOM	67	61	71	79	80	82	80
SUBTOTAL EEC	**199**	**208**	**254**	**268**	**289**	**301**	**297**
AUSTRIA	7	12	15	15	18	19	18
FINLAND	1	2	3	3	3	3	3
GREECE/CYPRUS	4	4	6	8	9	10	9
NORWAY	5	4	4	3	3	4	4
PORTUGAL	24	20	22	27	39	38	40
SPAIN	10	14	21	35	36	37	38
SWEDEN	1	2	3	3	3	3	3
SWITZERLAND	3	3	3	3	3	3	3
TURKEY	5	5	5	5	6	5	5
TOTAL WEST EUROPE	**259**	**274**	**336**	**370**	**400**	**423**	**420**
EAST EUROPE							
CZECHOSLOVAKIA	10	10	11	12	11	12	11
HUNGARY	5	6	6	8	10	13	15
POLAND	6	6	11	13	14	13	14
U.S.S.R.	+	3	8	12	12	15	15
U.S.A.							
YARN+MONOFIL	124	119	134	138	143	151	147
STAPLE	23	24	27	36	43	54	51
FILM FIBER	86	82	100	113	128	139	140
OTHER AMERICAS							
ARGENTINA	4	6	9	10	11	11	10
BRAZIL	17	20	27	33	40	39	40
CANADA	32	33	30	32	31	32	30
CHILE	0	0	0	0	1	1	1
EL SALVADOR GUATEMALA HONDURAS	1	1	1	2	2	2	2
MEXICO	5	5	7	17	18	20	22
NICARAGUA	+	+	1	1	1	1	1
PERU	2	3	4	5	5	5	5
URUGUAY	2	2	2	2	1	1	1
JAPAN							
YARN+MONOFIL	18	11	14	15	16	18	16
STAPLE	31	30	28	25	27	29	27
FILM FIBER	41	40	44	45	NA	NA	NA
OTHER AFRICA, ASIA & OCEANIA							
AUSTRALIA	16	15	16	17	18	20	20
CHINA (TAIWAN)	5	6	6	21	26	25	25
KOREA, REP. OF	8	5	5	6	7	8	4
PHILLIPINES	0	+	+	1	2	2	2
SOUTH AFRICA	11	10	10	9	3	3	3
OTHER	0	0	0	+	+	+	+

The olefin data shown comprise (a) the tonnages of yarn, monofilaments and staple plus film fiber reported by official sources, such as governments, trade associations or other statistical agents plus (b) estimates of the additional tonnages of olefin fiber not included in the aforementioned data. Note text on page 82.

No attempt is made to strike a world total inasmuch as data are incomplete for a number of countries, particularly in Latin America, East Europe and Other Africa, Asia & Oceania.

NUMBER OF MAN-MADE FIBER PRODUCING PLANTS (EXCEPT OLEFIN)*

COUNTRY & REGION	CELL.		NON-CELLULOSIC					TEXTILE GLASS	GRAND TOTAL
	ACETATE[a]	RAYON	ACRYLIC[b]	NYLON	POLYESTER	OTHER[c]	TOTAL		
WEST EUROPE									
AUSTRIA		2			1	1	2		4
BELGIUM/LUX.	1	2	1	3	1		5	2	10
FINLAND		1		1			1	1	3
FRANCE		3	2	7	4	1	14	2	19
GERMANY, F.R.	1	4	3	12	12	4	31	3	39
GREECE		1	1	2	2		5		6
IRELAND (EIRE)			1	2	2		5		5
ITALY/MALTA	3	4	6	18	12	2	38	3	48
NETHERLANDS		2		1	2	2	5	1	8
NORWAY		1						1	2
PORTUGAL		2	1	1	1		3	1	6
SPAIN	1	4	2	6	5	1	14	1	20
SWEDEN		1		1			1	1	3
SWITZERLAND		1		4	2		6		7
TURKEY		1	2	3	7		12	1	14
UNITED KINGDOM	4	2	3	6	5	4	18	5	29
TOTAL W. EUROPE	**10**	**31**	**22**	**67**	**56**	**15**	**160**	**22**	**223**
EAST EUROPE									
BULGARIA		1	1	1	1		3		4
CZECHOSLOVAKIA		5		3	2		5	2	12
GERMAN DEM. REP.		8	2	3	2	1	8	1	17
HUNGARY		1	1	1			2		3
POLAND		6	1	1	2	2	6	2	14
ROMANIA		2	1	1	2		4		6
YUGOSLAVIA		2	1	2	5		8	1	11
E. EUROPE ABOVE		**25**	**7**	**12**	**14**	**3**	**36**	**6**	**67**
AMERICAS									
ARGENTINA	1	1	1	8	5	1	15	1	18
BRAZIL	1	4	2	19	11	1	33	1	39
CANADA	1	1		3	3	1	7	1	10
CHILE		2		2	3		5		7
COLOMBIA	1			3	5		8	1	10
COSTA RICA					1		1		1
CUBA		1							1
ECUADOR					3		3		3
GUATEMALA				1			1		1
MEXICO	1	2	3	9	9	2	23	1	27
PERU	1	1	1	3	4		8		10
U.S.A.	5	4	6	32	34	9	81	16	106
URUGUAY	1			2	2		4		5
VENEZUELA	2			4	4		8		10
TOTAL AMERICAS	**14**	**16**	**13**	**86**	**84**	**14**	**197**	**21**	**248**
AFRICA, ASIA & OCEANIA									
AUSTRALIA				3	2	1	6	1	7
BANGLADESH		1		1			1		2
CHINA, TAIWAN		2	3	15	18		36		38
EGYPT		2		1	2		3		5
INDIA	1	11	2	10	11		23	2	37
INDONESIA		1		3	6		9		10
IRAN			1	1	1		3		3
IRAQ		1							1
ISRAEL			1	1	1		3		3
JAPAN	2	15	8	11	22	20	61	15	93
KENYA				1	1		2		2
KOREA, REP. OF	1	1	2	6	13	1	22		24
MALAYSIA					1		1		1
NIGERIA					1		1		1
PAKISTAN	1			3	1		4		5
PHILIPPINES				2	2		4		4
SOUTH AFRICA				1	5		6	1	7
THAILAND		1		3	4		7		8
TOTAL A, A & O	**5**	**35**	**17**	**62**	**91**	**22**	**192**	**19**	**251**
WORLD TOTAL*	**29**	**107**	**59**	**227**	**245**	**54**	**585**	**68**	**789**

* Data for People's Republic of China, North Korea & U.S.S.R. are not included here.

a. Acetate includes triacetate.

b. Acrylic includes modacrylic.

c. All Other includes 3 aramid, 1 azlon, 2 biconstituent, 4 fluorocarbon, 1 polycarbonate, 1 polychial, 1 polyesteramide, 1 polyvinylfluoride, 1 promix, 8 saran, 19 spandex or elastomer, 4 vinal and 8 vinyon plants, for a total of 54 plants producing these other fibers.

WORLD MAN-MADE FIBER PRODUCERS

ARGENTINA

COAFI S.A.
Polyester Buenos Aires (yarn)

DUCILO S.A.I.C.
Nylon 66 Berazategui & Mercedes *Nylon Ducilo* (yarn)
Spandex Mercedes (fused multifil or coalesced monofil)

FIBRAS INDUSTRIALES S.A.C. e I.
Nylon 6 Quilmes *Caprolan* (yarn & staple)

HISISA ARGENTINA S.A.I.C.I.F.
Acrylic Baradero *Cashmilon* (staple)

MITEXTIL S.A.
Nylon 6 Buenos Aires (yarn)

M. NAHMIAS S.A.C.I.
Polyester Buenos Aires (yarn)

NICIEZA y TAVERNA HNOS. S.A.
Nylon 6 Chivilcoy *Grilon* (monofil)

PETROQUIMICA SUDAMERICANA S.A.
Nylon 6 Olmos-La Plata (yarn & staple)
Polyester Olmos-La Plata *Dicrolene* (yarn & staple)

RHODIA ARGENTINA QUIMICA e TEXTIL
Acetate Quilmes (yarn)
Polyester Quilmes *Tergal* (yarn)

SOCIEDAD NUEVAS INDUSTRIAS ARGENTINAS FIBRAS ARTIFICIALES S.A.I.C.F.I. (SNIAFA)
Nylon 6 Hernández-La Plata *Snialon* (yarn)
Rayon Plátanos (reg yarn & staple)

SUDAMTEX S.A. TEXTIL SUDAMERICANA
Polyester Azul *Acrocel* (staple)

VALENCIANA ARGENTINA S.A.
Nylon 6 Buenos Aires (yarn)

OLEFIN FIBER

MANUFACTURA FORTI ARGENTINA S.A.C.I.A.F.I. Buenos Aires (P yarn & staple)

PANAMERICA DE PLASTICOS S.A.I.C Olivos (P staple)

TEXTILYUTE S.A.I.C. Isidro Casanova (P film)

VINISA S.A.I.C. Buenos Aires *Rafistal, Strofil* (E & P monofil)

TEXTILE GLASS FIBER

VIDRIERIA ARGENTINA S.A. (VASA)
Llavallol *Texover*

AUSTRALIA

FIBREMAKERS LTD.
Nylon 66 Bayswater, Victoria *Bri-Nylon* (yarn & monofil)
Penrith, N.S.W. (tire cord)
Biconstituent Mulgrave, Victoria *Front Runner* (melded fabric)
Polyester Bayswater *Terylene* (yarn, staple & tow)

NOTES & DEFINITIONS FOR THIS WORLD DIRECTORY

This directory of producers separates the listing for each country into: (1) the cellulosic plus the non-cellulosic fibers (except olefin), (2) olefin fiber and (3) textile glass fiber.

• means that the company produces olefin fiber as well as other man-made fiber(s). For example, Brasil Viscose S.A. produces olefin fiber in Brazil as well as nylon and rayon. The nylon and rayon entries for this company are in one section and the olefin entry is shown in the Olefin Fiber section.

* indicates that a new plant, or facilities for producing a new product at an existing plant, is in the planning or construction stage; such facilities are not expected to be operable before 1982 or later. Other product-plants are operable today or are expected to be operable during 1981.

The locality shown is the plant site.

Yarn means filament yarn.

Monofil means an extruded monofilament and may be either a round or a rectangular (ribbon) cross-section. Monofilaments for bristles are excluded.

Film includes **Slit**: tape produced by slitting an already-attenuated wide sheet of olefin film; and **Split**: fibrillated slit film.

Not included in this survey is the slit film used for decorative or tying ribbon and such.

Captive means that most or all of the fiber produced is consumed by the company in a vertical operation.

GENERIC NAMES & TRADEMARKS

The generic fiber names used in this survey are mainly those promulgated by the U.S. Federal Trade Commission (FTC). Following are those generic names (in **bold** type) and a brief description of the fibers covered by each name.

The *italicized* words are trademarks. All other fiber names are generic and are shown in regular type.

TEXTILE GLASS FIBER

A fiber made in two primary forms, namely continuous strand and staple sliver. Continuous strand is drawn fiber (i.e., from a textile-type bushing), while staple sliver, which is produced in relatively small amounts, is a blown fiber.

Textile glass fiber is produced and sold as filament yarn, strand, roving, mat, chopped strand, milled fiber and staple yarn & sliver. See the complete definition on page 142 of the September 1980 ORGANON.

CELLULOSIC (ARTIFICIAL) FIBERS

Acetate. Cellulose acetate. Cigarette filtration tow is excluded.

Triacetate. Cellulose acetate, wherein not less than 92% of the hydroxyl groups are acetylated.

Rayon. Regenerated cellulose, including substitutions for not more than 15% of the hydrogens of the hydroxyl groups. Includes high wet modulus fiber.

Cupra means cuprammonium rayon.

The viscose rayon yarns are identified as ind (industrial or high tenacity yarn) and reg (regular or textile yarn).

NON-CELLULOSIC (SYNTHETIC) FIBERS

Acrylic. At least 85% acrylonitrile by weight.

Modacrylic. 35% to 84% acrylonitrile by weight, except when it qualifies as rubber.

Azlon. Regenerated natural protein.

Nylon. A long-chain synthetic polyamide in which less than 85% of the amide linkages are attached directly to two aromatic rings. The types are identified as 6, 66, etc. Where a company produces both type 6 and type 66, the designation 6/66 is used.

Aramid. A long-chain synthetic polyamide in which at least 85% of the amide linkages are attached directly to two aromatic rings. In this survey, any aramid data are included with nylon.

Olefin. At least 85% ethylene, propylene or other olefin units by weight, except amorphous (noncrystalline) polyolefins qualifying as rubber. E means Polyethylene and P means Polypropylene. Also see adjoining notes on olefin fiber.

Polyester. At least 85% by weight of an ester of a substituted aromatic carboxylic acid, including but not restricted to substituted terephthalate units, and parasubstituted hydroxybenzoate units.

Saran. At least 80% vinylidene chloride by weight.

Spandex. At least 85% of a segmented polyurethane.

Vinal. At least 50% by weight vinyl alcohol and wherein the vinyl alcohol plus acetal units are at least 85% by weight.

Vinyon. At least 85% vinyl chloride by weight.

Other man-made fibers included in this survey, but not listed by the FTC, are **Polycarbonate** (U.S.A.), **Polychlal** (Japan), **Promix** (Japan) and **TFE- & FEP-fluorocarbon** (Fluoro) (Japan, U.S.A. & U.S.S.R.).

Not covered in this survey are fibers which would fall under the FTC's generic designations of rubber, lastrile, metallic and novoloid. Fibers falling under the FTC designations of anidex and nytril are no longer produced.

International Standard #2076, "Generic Names of Man-Made Fibres," as promulgated by the International Organization for Standardization, lists some 23 names, of which the following are similar to the FTC designations: cupro, viscose, acetate, triacetate, acrylic, modacrylic, nylon or polyamide, polyester and glass. ISO also lists modal (regenerated cellulose obtained by processes giving a high tenacity and a high wet modulus), alginate (metallic salts of alginic acid), chlorofibre (similar to the FTC's saran and vinyon), elastane (similar to the FTC's spandex), elastodiene, fluorofibre, polycarbamide, polyethylene & polypropylene (similar to the FTC's olefin), polyurethane, trivinyl and vinylal (similar to the FTC's vinal).

AUSTRALIA *(Continued)*

UNITED CARPET MILLS PTY. LTD.
Nylon 6 Thomastown, Victoria *Unilon* (yarn)
Polyester Thomastown (yarn)

In addition to the above, VILENE AUSTRALIA reportedly produces spunbonded products at Minto, N.S.W.; these are believed to be principally based on cellulosic fiber, but some polypropylene may be used.

OLEFIN FIBER

AMOCO FABRICS COMPANY, PATCHOGUE PLYMOUTH DIVISION
Liverpool, N.S.W. *Poly Bac, Propex* (P film)

SARLON INDUSTRIES PTY. LTD. Punchbowl, N.S.W.
(E & P monofil & film)

The following companies produce olefin film fiber: A. ABRAHAMS & SONS PTY. LTD., Clayton, Victoria (*Koala, Polytex*); CORDEX INDUSTRIES PTY. LTD., Gladesville, N.S.W.; GEO. KINNEAR & SONS PTY. LTD., Footscray, Victoria (*Emu*); H. J. PENNO, Adelaide, South Australia; and TAPEX PTY. LTD., Sydney, N.S.W.

TEXTILE GLASS FIBER

AUSTRALIAN FIBREGLASS PTY. LIMITED
Dandenong, Victoria *A.C.I. Fibreglass*

AUSTRIA

AUSTRIA FASERWERKE G.m.b.H.
Polyester Lenzing *Trevira* (staple)

CHEMIEFASER LENZING A.G.•
Rayon Lenzing (staple)
Fluoro Lenzing (yarn & staple)

ERSTE ÖSTERREICHISCHE GLANZSTOFF-FABRIK A.G.
Rayon St. Pölten (ind & reg yarn)

OLEFIN FIBER

CHEMIE LINZ A.G. Linz *Asota, Linz-PP-Multifil, Linz-PP-Vlies*
(P yarn, staple & spunbonded)

The following companies produce olefin film fiber: CHEMIEFASER LENZING A.G., Lenzing; M. TEUFELBERGER, Wels; and SEUTTER, Unter Eggendorf.

BANGLADESH

ASHUGANJ PETROCHEMICAL COMPLEX
Acrylic Ashuganj* (staple)

KARNAPHULI RAYON AND CHEMICALS LIMITED
Rayon Chandraghona, Chittagong (reg yarn & staple*)

PYLON INDUSTRIES LIMITED
Nylon 6 Fouzdarhat Industrial Estate, Chittagong *Pylon* (yarn)

BELGIUM

AMCEL EUROPE, S.A.
Acetate Lanaken, Limburg (yarn)
Triacetate Lanaken (yarn)

N.V. BAYER S.A.
Nylon 6 Antwerpen - *Dorix* (staple)

BEAULIEU-NYLON S.A.•
Nylon 6 Kruishoutem, East Flanders (yarn)

FABELTA NINOVE S.A.
Rayon Ninove, East Flanders (reg yarn)

FABELTA TUBIZE S.A.
Acrylic Tubize, Brabant *Acribel* (staple)

FABELTA ZWIJNAARDE S.A.
Nylon 66 Zwijnaarde, East Flanders *Fabelnyl* (yarn)
Rayon Zwijnaarde (staple)

OLEFIN FIBER

DELOTEX (P staple)

N.V. FIBRILO Zele, East Flanders (P staple & film)

S.A. LA LOKEROISE Lokeren, East Flanders (P staple)

OSTEND STORES & ROPEWORKS S.A. Ostend, West Flanders

POLYFIL N.V. (subsidiary of Beaulieu) Wielsbeke (P yarn)

T.T.C. POLYOLEFINS S.A. Overpelt, Limburg (P monofil)

The following companies produce only olefin film fiber: N.V. JONCKVANSTEEN, Passendale; S.A PHORMIUM, Zele, East Flanders; POLYTEXCO S.P.R.L., Beveren, Kortryk; and S.A. U.C.O., Ledeberg, Gent.

TEXTILE GLASS FIBER

N.V. BAYER S.A.
Antwerpen

OWENS-CORNING FIBERGLAS EUROPE S.A.
Battice, Liège *Fiberglas*

Rayon+acetate production and capacity data are combined with the Netherlands on page 87. Non-cellulosic production and capacity data are combined with the Netherlands and Luxembourg under "Benelux" on page 84.

BOLIVIA

TEXTURBOL TEXTURIZADORA BOLIVIANA
Polyester La Paz* (yarn)

BRAZIL

ARTEPESCA - S.A. ARTIGOS DE PESCA DO NORDESTE•
Nylon 6 Igarassu, Pernambuco (monofil)

BANYLSA TECELAGEM DO BRASIL S.A.
Nylon 6 Aratú, Bahia *Fio Banylsa Nylon* (yarn)
Polyester Aratú *Fio Banylsa Poliester* (yarn)

BRASIL VISCOSE S.A.•
Nylon 6 Jundiapeba, São Paulo *Giorgilon* (staple)
Rayon Jundiapeba (staple)

CELANESE DO BRASIL - FIBRAS QUÍMICAS LTDA.
Nylon 66 São Bernardo do Campo, São Paulo
Celtrel, Celtrel BCF (yarn)
Polyester São Bernardo do Campo *Fortrel* (yarn)
Pocos de Caldas, Minas Gerais *Fortrel* (staple)

CELANESE DO BRASIL NORDESTE S.A.
Polyester Aratú, Bahia *Fortrel* (yarn & staple)

CIA. BRASILEIRA DE SINTÉTICOS
Nylon 6 Osasco, São Paulo (yarn)
Polyester Osasco *Trevira* (yarn)

CIA. NITRO QUÍMICA BRASILEIRA
Rayon São Miguel Paulista, São Paulo (reg yarn)

COBAFI - CIA. BAHIANA DE FIBRAS
Nylon 6 Camaçari, Bahia (yarn)

DE MILLUS S.A. INDÚSTRIA E COMÉRCIO
Nylon 6 Rio de Janeiro, Rio de Janiero *Demilon* (yarn)

DU PONT S.A. INDÚSTRIAS QUÍMICAS
Spandex Paulínia, São Paulo *Lycra* (fused multifil)

EQUIPESCA - EQUIPAMENTOS DE PESCA S.A.
Nylon 6 Campinas, São Paulo (monofil)

FIAÇÃO BRASILEIRA DE RAYON - FIBRA S.A.
Nylon 6 Americana & São Paulo, São Paulo *Lilion* (yarn)
Polyester São Paulo (yarn)
Rayon Americana (reg yarn & staple)

FISIBA - FÍBRAS SINTÉTICAS DA BAHIA S.A.
Acrylic Camaçari, Bahia *Triana* (staple)

INDÚSTRIAS MATARAZZO DE FÍBRAS SINTÉTICAS S.A.
(formerly S.A. Indústrias Reunidas Fábricas Matarazzo)
Nylon 6 São José dos Campos, São Paulo (yarn)

MANAP - MANUFATURA NACIONAL DE PLÁSTICOS•
Nylon 6 Osasco, São Paulo *Caicara* (monofil)

MARCATTO S.A. IND. E COM.•
Nylon 6 Jaraguá do Sul, Santa Catarina (monofil)

MAZZAFERRO POLIMEROS E FIBRAS SINTÉTICAS LTDA.
Nylon 6 São Bernardo do Campo, São Paulo *Grilon, Trilon*
(yarn & monofil)

MONOFIL - CIA. INDUSTRIAL DE MONOFILAMENTOS•
Nylon 6 São Paulo, São Paulo (monofil)

NOVELSPUMA - ESPUMA DE NYLON S.A.
Nylon 6 São Paulo, São Paulo (yarn)

BRAZIL *(Continued)*

POLYENKA S.A.
Polyester Americana, São Paulo *Diolen* (yarn)

POLYNOR S.A. INDÚSTRIA E COMÉRCIO DE FIBRAS SINTÉTICAS DA PARAÍBA
Polyester João Pessoa, Paraíba *Amilon, Polynor* (yarn & staple)

RHODIA S.A.
Acetate Santo André, São Paulo (yarn)
Acrylic São José dos Campos, São Paulo *Crylor* (staple)
Nylon 66 Santo André *Dropnyl, Rhodianyl* (yarn & staple)
Polyester Santo André *Dropgal-Tergal, Tergal* (yarn & staple)
São José dos Campos *Bidim* (spunbonded)
Rayon São José dos Campos (ind yarn & staple)

RHODIA NORDESTE S.A.
Polyester Cabo, Pernambuco *Dropgal, Tergal* (yarn & staple)

SEARA IND. TÊXTIL LTDA.•
Nylon 6 Londrina, Parana (monofil)

SPUMAR S.A. INDÚSTRIA E COMÉRCIO•
Nylon 6 São Paulo, São Paulo (yarn)

OLEFIN FIBER

ARTEPESCA - S.A. ARTIGOS DE PESCA DO NORDESTE
Igarassu, Pernambuco (E & P monofil)

BRASIL VISCOSE S.A. Jundiapeba, São Paulo (P staple)

ETRÚRIA S.A. INDÚSTRIA DE FIBRAS E FIOS SINTÉTICOS
Mairinque, São Paulo (P staple)

FADEMAC - FABRICA DE MATERIAIS DE CONSTR. S.A.
Jacarei, São Paulo (P staple)

FITESA - FIAÇÃO TÊXTIL DE EMBALAGENS PLÁSTICAS S.A.
Guaiba, Rio Grande do Sul (P staple) & Porto Alegre, Rio Grande do Sul (P film)

INYLBRA S.A. TAPETES E VELUDOS
Diadema, São Paulo (P staple)

MANAP - MANUFATURA NACIONAL DE PLÁSTICOS
Osasco, São Paulo (P monofil)

MARCATTO S.A. IND. E COM. Jaragua do Sul, Santa Catarina
(E & P monofil)

MONOFIL - CIA. INDUSTRIAL DE MONOFILAMENTOS
São Paulo, São Paulo (P monofil)

SEARA IND. TÊXTIL LTDA. Londrina, Paraná (E & P monofil)

SPUMAR S.A. INDÚSTRIA E COMÉRCIO São Paulo, São Paulo
Fibrilene, Polylene, Polyplan, Prolene (P yarn, staple & film)

TAPETELENE - INDUSTRIA S.A. Pajucara/Maramguape, Ceará (P staple)

TINTORIA S.A. - BENEFICIAMENTO DE FIOS (P yarn)

The following companies produce only olefin film fiber: BRASMEN TOL CAÇAPAVA S.A., Caçapava, São Paulo; CACIQUE DE EMBALAGENS S.A. INDÚSTRIA E COMÉRCIO, Londrina, Paraná; C.A. T.A. - CIA. AMAZONIA TÊXTIL DE ANIAGEM S.A., Belém, Pará; CIA. FAB. YOLANDA S.A., Recife, Pernambuco; CIA. JAUENSE INDUSTRIAL, Jau, São Paulo; CIA. UNIÃO MANUFATORA DE TECIDOS, Rio de Janeiro, Rio de Janeiro; DICOPLAST S.A. INDÚSTRIA E COMÉRCIO DE PLÁSTICOS, Presidente Prudente, São Paulo; EMPLA - EMBALAGENS PLÁSTICAS S.A., Rio de Janeiro; FIBRASA IND. E COM. DE FIOS E EMBALAGENS S.A., Espirito Santo; FIBROTEX TECELAGEM DE FIBRAS S.A., São Paulo, São Paulo; IMPLASA - INDÚSTRIA DE PLÁSTICOS ZANIOLO S.A., São José dos Pinhais, Paraná; INDÚSTRIA TÊXTIL TSUZUKI LTDA., Suzano, São Paulo; IPLAC DO BRASIL S.A. PLÁSTICOS INDUSTRIAIS, Fortaleza, Ceará*; NOVOPLAST IND. E COM. DE PLÁSTICOS, Nova Odessa, São Paulo; PLABASA - PLÁSTICOS DA BÁHIA S.A., Salvador, Báhia; PLASMINAS - PLÁSTICOS MINAS LTDA., Tres Pontas, Minas Gerais; PLÁSTICOS DO PARANÁ LTDA., Londrina; PLÁSTICOS LINIL S.A., Recife; PLÁSTILIRA INDÚSTRIA DE EMBALAGENS LTDA., Campinas, São Paulo; QUALITAS IND. E COM. LTDA., São Paulo; and SACOPLAST/PLANOSA - PLÁSTICOS DO NORDESTE S.A., Natal, Rio Grande do Norte.

TEXTILE GLASS FIBER

OCFIBRAS
Rio Claro, São Paulo *Fiberglas*

BULGARIA

KOMBINAT "DIMITAR DOMOV"•
Acrylic Burgas *Bulana* (staple)
Nylon 6 Vidin *Vidlon* (yarn)
Polyester Yambol *Yambolen* (yarn, staple & tow)

KOMBINAT "SVILOSA"
Rayon Svishtov (reg yarn & staple)

OLEFIN FIBER

KOMBINAT "DIMITAR DOMOV" Yambol* (P staple)

CANADA

BADISCHE CANADA, LTD.
Nylon 6 Arnprior, Ontario *Zefran* (yarn & staple)

CELANESE CANADA INC., FIBRES DIVISION•
Acetate Drummondville, Quebec (yarn)

COURTAULDS (CANADA) LIMITED
Rayon Cornwall, Ontario (staple)

DU PONT CANADA INC.•
Nylon 66 Kingston, Ontario *Antron, Cantrece, Du Pont* (yarn, staple & tow)
Polyester Kingston, Ontario & Coteau-du-Lac, Quebec *Dacron* (yarn)
Spandex Maitland *Lycra* (fused multifil)

FIRESTONE TEXTILES CO. - A DIVISION OF FIRESTONE CANADA LTD.-LTEE.
Nylon 6 Woodstock, Ontario (yarn & monofil)

MILLHAVEN FIBRES LIMITED
Polyester Millhaven, Ontario *Fortrel* (yarn, staple, tow & fiberfill)

OLEFIN FIBER

AMOCO FABRICS CO. Brantford & Hawkesbury, Ontario
(E & P monofil & P film)

CALKO MILLS LTD. Rivière du Loup, Quebec (P monofil)

CANADA WESTERN CORDAGE CO., LTD. New Westminster, B.C.
(P monofil)

CELANESE CANADA INC., FIBRES DIVISION St. Jean, Quebec
Protel (P yarn & staple)

DOON TWINES LTD. Kitchener, Ontario (P yarn, monofil & staple)

DU PONT CANADA INC. North Bay, Ontario (P film)

GUELPH TWINES LTD. Guelph, Ontario (P monofil & film)

NOVASTRAND St. John, New Brunswick (P monofil)

POLI-TWINE CORP. LTD. Belleville, Ont. & Saskatoon, Saskatchewan
Polytie, PolyTwine, Spiralok (P monofil)

SCHLEGEL COMPANY CANADA LTD. Oakville, Ontario (P monofil)

STRUDEX FIBRES LTD., DIVISION OF KRAUS CARPET MILLS LTD.
Waterloo, Ontario (P yarn & staple - captive)

The following companies produce olefin film fiber: FIBERWORLD, LTD., Hawkesbury, Ont.; and POLYMER INTERNATIONAL (N.S.) LTD., Truro, N.S.

TEXTILE GLASS FIBER

FIBERGLAS CANADA LIMITED
Guelph, Ontario *Fiberglas*

CHILE

GOODYEAR DE CHILE, S.A.I.C.
Nylon 6 Maipú, Santiago (yarn & monofil)

INDUSTRIAS QUÍMICAS GENERALES S.A.
Rayon Quillota, Valparaiso (ind yarn & staple)

LANERA AUSTRAL S.A.
Polyester Santiago (staple & tops)

MANUFACTURAS SUMAR S.A.
Nylon 6 El Pinar 172, Santiago *Crilobal* (yarn)
Polyester El Pinar 172 *Poligal* (yarn & staple)

QUIMÍCA INDUSTRIAL S.A.
Polyester Maipú, Santiago *Polycron* (staple & tops)

"RAYONHIL," INDUSTRIA NACIONAL DE RAYON S.A.
Rayon Llolleo, Santiago (reg yarn & staple)

CHILE *(Continued)*

OLEFIN FIBER

TEJIDOS PLASTICOS INTERPLAST S.A.
Santiago, Santiago (P film)

CHINA, PEOPLE'S REPUBLIC OF (MAINLAND)

Reliable information on locations of man-made fiber plants in the People's Republic of China is not available.

Rayon plants have been reported at Amoy, Antung, Canton, Foshan, Kirin, Nanchang, Nanking, Paoting and Shanghai. However, only the plants at Antung and Shanghai can be confirmed.

Non-cellulosic plants are reported at Canton (vinyon), Chungking (vinyon), Foochow (vinyon), Liaoyang (nylon & polyester), Lanchow (olefin & vinal), Peking (nylon, polyester & vinal), Pingtingshan (nylon), Shanghai (acrylic, polyester & vinyon), Shengli (vinyon), Shenyang (nylon & polyester) and Tientsin (polyester & vinyon). Others have been reported at Chenchiang, Harbin (acrylic), Hsinhsiang, Paoting (nylon), Sian and Sining (vinyon).

The following three plants have been reported as producing textile glass fiber: Shanghai Glass Fiber Plant, Shanghai Tungfanghung Glass Fiber Plant and Tientsin Glass Fiber Plant.

CHINA, REPUBLIC OF (TAIWAN)

CENTURY CHEMICAL INDUSTRY CORPORATION
Polyester Tainan *Centuron* (yarn)

CHENTA CHEMICAL INDUSTRIAL CORPORATION
Nylon 6 Kaohsiung *Rabbit* (yarn)

CHINA MAN-MADE FIBER CORPORATION
Rayon Tou Fen (reg yarn & staple)

FORMOSA CHEMICALS & FIBER CORPORATION (part of Formosa Plastics Group)
Nylon 6 Chang Hwa *Sunylon* (yarn)
Rayon Chang Hwa (staple)

FORMOSA PLASTIC CORPORATION (part of Formosa Plastics Group)
Acrylic Kaohsiung & Lanchu *Tairylan* (staple, tow & tops)

HSIEH CHIN FISHING NET COMPANY, LTD.•
Nylon 6 Kaohsiung *Hsieh Chin* (monofil)

HUALON-TEIJIN CORPORATION
Nylon 6 Chungho, Tao Yuan & Tou Fen (yarn)
Polyester Chungho, Tou Fen & Yim Kao *Hualon* (yarn & staple)

HUNG CHOU CHEMICAL INDUSTRY COMPANY, LTD.
Polyester Kwei Shan *Hunvira* (yarn)

JANG DAH NYLON INDUSTRIAL COMPANY, LTD.
Nylon 6 Hsin Tien *Yuan Pao* (yarn)

LIEN YU INDUSTRIAL COMPANY, LTD.
Nylon 6 Lin Tu *Pagoda* (yarn)
Polyester Lin Tu *Pagoda* (yarn)

NAN-YA PLASTIC CO., POLYESTER DIVISION
(part of Formosa Plastics Group)
Polyester Tai Shan *Tairilin* (yarn & staple)

ORIENTAL CHEMICAL FIBER CORPORATION
Polyester Hsin Chu *Eastlene, Eastlon* (yarn & staple)

PACIFIC ENTERPRISES LTD.
Nylon 6 Tao Yuan *Pel* (yarn)
Polyester Tao Yuan (yarn)

SAN YUAN HSING ENTERPRISE COMPANY
Nylon 6 Kaosiung (monofil)

SHINKONG SYNTHETIC FIBERS CORPORATION
Polyester Tao Yuan *Shinlon* (yarn & staple)

SYNTHETIC FIBER MILLS CORPORATION
Nylon 6 Tao Yuan *Synlon* (yarn)

TA MING FIBERS INDUSTRIES CORPORATION
Nylon 6 Tao Yuan *Ta Ming Nylon* (yarn)
Polyester Toa Yuan *Poylon* (yarn)

TA SHING CHEMICAL FIBER CO., LTD.
Nylon 6 Tao Yuan *Tasinlon* (yarn)
Polyester Tao Yuan *Tasinlon* (yarn & staple)

TAINAN SPINNING CO., LTD.
Polyester Tainan *Nanlon* (yarn & staple)

UNITED SYNTHETIC FIBERS CORPORATION
Polyester Tao Yuan *King Long* (staple)

TONG HWA SYNTHETIC FIBER CO., LTD.
Acrylic Chu Pei *Townflower* (staple & tow)

TUNG HO SPINNING WEAVING & DYEING CO., LTD.
Polyester Tainan *Pearlylene* (staple)

TUNTEX FIBER CO., LTD.
Polyester Hsin Su *Tuntex* (yarn)

VANLON FIBERS INDUSTRIAL CORPORATION
Nylon 6 Tao Yuan *Vanlon* (yarn)
Polyester Tao Yuan *Vanlon* (yarn)

YUNG CHIN FIBER CO., LTD.
Nylon 6 Kaohsiung *Hailon* (yarn)

YU HO FIBER INDUSTRIAL CORPORATION
Polyester Tao Yuan *Luxlen* (yarn)

OLEFIN FIBER

CHIA YANG INDUSTRIAL CO., LTD. Hsi-Chih (P monofil)

CHIEN SUN PLASTIC INDUSTRIAL CO., LTD. Hsin-Chu (E & P film)

CHINA FOLEX CORPORATION Shih-Lin (E & P monofil)

CHUNG KUANG PLASTIC CO., LTD. Chang-Hua (E & P film)

FULLMARK INDUSTRIAL CO., LTD. Hsin-Chu (E & P monofil)

FUU WON CHEMICAL INDUSTRIAL CO., LTD. Tu-Chen (P yarn)

HSIEH CHIN FISHING NET COMPANY, LTD. Kaohsiung
Hsieh Chin (E monofil)

HUNG FENG ENTERPRISE CO., LTD. Yang-Mei (P monofil)

IEN YI FIBER INDUSTRIAL CO., LTD. Chi-Do goble (E monofil)

JUI I CHEMICAL INDUSTRIAL CO., LTD. Tou-Yuan (E & P monofil)

KUO HSIANG ENTERPRISE CO., LTD. Yang-Mei (E & P monofil)

LIEN FU CHEMICAL COMPANY LTD. Tou-Fen (E & P monofil)

MEI LON FIBER CO., LTD. Chang-Hua (E monofil)

PAO TSUNG TAI INDUSTRIAL COMPANY LTD. Tainan (P film)

POLON FIBER INDUSTRIAL CO., LTD. Chung-Li (P monofil)

SAN YANG INDUSTRIAL COMPANY LTD. Nei Hu Hsiang (P film)

TAI YEE CHEMICAL INDUSTRIAL CO., LTD. Chung-Li (E & P monofil)

UNITED FIBER INDUSTRIAL CO., LTD. Chung-Li (E & P monofil)

YAO CHENG PLASTIC CO., LTD. Pan-Chiao (P yarn)

COLOMBIA

CELANESE COLOMBIANA, S.A.
Acetate Yumbo, near Cali, Valle del Cauca (yarn)
Nylon 6 Sabaneta, Antioquia *Nylocel* (yarn)
Polyester Yumbo *Fortrel* (yarn & staple)

COLTEFIBRAS S.A.
Polyester Igatui, Antioquia* (yarn & staple)

ENKA DE COLOMBIA S.A.
Nylon 6 Girardota, Antioquia *Enkalon* (yarn)
Polyester Girardota *Terlenka* (yarn & staple)

FABRICA DE HILAZAS VANYLON S.A.
Nylon 6 Barranquilla, Atlántico *Vanylon* (yarn & monofil)
Polyester Barranquilla *Vanylon* (yarn)

POLIMEROS COLOMBIANOS S.A.
Polyester Medellin, Antioquia *Primel* (yarn, staple, tow & tops)

ZYLETTE (LAFAYETTE)
Polyester Bogotá (yarn)

The following companies produce olefin film fiber: COMPANIA NACIONAL DE EMPAQUES S.A., Medellin; PLASTICOS DE MAGDELENA LTDA., Santa Marta; and POLYMER DE COLOMBIA S.A., Cartagena.

TEXTILE GLASS FIBER

OWENS-CORNING FIBERGLAS COLOMBIA, S.A.
Bogotá *Fiberglas*

COSTA RICA

OLYMPIC FIBERS, S.A.
Polyester San Antonio de Belén (yarn)

CUBA

INDUSTRIAS CONSOLIDADAS DE MATANZAS, S.A.
Rayon Matanzas (ind & reg yarn and staple)

CYPRUS

OLEFIN FIBER

LORDOS POLYSAC (LIMASSOL) LIMITED Limassol (P film)

CZECHOSLOVAKIA

CHEMICKÉ ZÁVODY JURAJA DIMITROVA, N.P.•
(GEORGE DIMITROV CHEMICAL WORKS, NATIONAL CORP.)
Rayon Bratislava, Slovakia (reg yarn & staple)

CHEMLON, N.P. (CHEMLON, NATIONAL CORPORATION)
Nylon 6 Humenné, Slovakia *Chemlon* (yarn)

CHEMOSVIT, N.P. (CHEMOSVIT, NATIONAL CORPORATION)•
Nylon 6 Svit, Slovakia *Sviton, Svitontex* (yarn & staple)
Rayon Svit (reg yarn)

SEVEROČESKÉ CHEMICKÉ ZÁVODY, N.P.
(NORTH BOHEMIAN CHEMICAL WORKS, NATIONAL CORP.)
Rayon Lovosice, Bohemia (ind yarn)

SILON, N.P. (SILON, NATIONAL CORPORATION)
Nylon 6 Planá nad Lužnicí, Bohemia *Silon* (yarn & monofil)
Polyester Planá nad Lužnicí *Tesil, Tevyro, Velana* (staple, tow & fiberfill)

SLOVENSKÝ HODVÁB, N.P.
(SLOVAKIAN FILAMENT YARN, NATIONAL CORPORATION)
Polyester Senica nad Myjavou, Slovakia *Slotera* (yarn)
Rayon Senica nad Myjavou (reg yarn)

SPOLANA, N.P. (SPOLANA, NATIONAL CORPORATION)
Rayon Neratovice, Bohemia (staple)

OLEFIN FIBER

CHEMICKÉ ZÁVODY JURAJA DIMITROVA, N.P. Bratislava *Istrona, Labren, Nobelex* (P yarn & staple)

CHEMOSVIT, N.P. Svit *Prolen, Texizol* (P yarn & spunbonded)

JUTA, N.P. Úpice, Bohemia (P spunbonded)

The following companies produce olefin film fiber: JUTA, N.P., Adamov, Moravia and Bernartice u Trutnova, Dvůr Králové, Jilemnice & Úpice, Bohemia; POVAŽSKÉ CHEMICKÉ ZÁVODY, N.P., Zilina, Slovakia; and TECHNOLEN, N.P., Lomnice nad Popelkou, Bohemia.

TEXTILE GLASS FIBER

SKLOPLAST, N.P. (SKLOPLAST, NATIONAL CORPORATION)
Trnava, Slovakia (yarn, chopped strand & mat)

VERTEX, N.P. (VERTEX, NATIONAL CORPORATION)
Litomyšl, Bohemia (yarn, roving, mat & staple yarn)

DENMARK

OLEFIN FIBER

A/S FIBERTEX Aalborg (P staple)

ESBJERG TOVVAERKSFABRIK A/S
Esbjerg *Westflex* (E & P monofil & film; P staple)

JACOB HOLM VARDE A/S Varde *Danaklon, IHS* (E & P staple & film)

R.F.W. PLAST-INDUSTRI A/S Vejle (P film)

ROBLON A/S Frederikshavn (P film)

ECUADOR

ECUATORIANA DE TEJIDOS DE PUNTA
Polyester Punta (yarn)

ENKADOR S.A.
Polyester Sangolqui, Pichincha (yarn)

FIBRATEX S.A.
Polyester Guayaquil, Guayas (yarn)

EGYPT

ESTABLISSEMENTS INDUSTRIELS POUR LA SOIE ET LE COTON S.A.A. (E.S.C.O.)
Rayon Cairo (reg yarn)

MISR AL-AMIRIYA INDUSTRIAL FIBRE CO.
Polyester Amiriya (yarn & staple)

SOCIETE MISR POUR LA RAYONNE S.A.A. (MISR RAYON CO.)
Nylon 6 Kafr-el-Dawar *Misrnylon* (yarn), *Misrylon* (staple)
Polyester Kafr-el-Dawar *Polymisr* (yarn)
Rayon Kafr-el-Dawar (reg yarn & staple)

EL SALVADOR

OLEFIN FIBER

FILAMENTOS Y PERFILES, S.A. (FILPERSA) San Salvador *Duraplen* (E & P monofil)

SALVAPLASTIC, S.A. San Salvador (P monofil)

FINLAND

KEMIRA OY SÄTERI
Rayon Valkeakoski (reg yarn & staple)

LAPPFIBER OY
Nylon 66 Tornio (yarn)

OLEFIN FIBER

The following companies produce olefin film fiber: MANILLA OY, Turku and PIIPO OY, Lempäälä.

TEXTILE GLASS FIBER

A. AHLSTROM OY GLASSFIBRE
Karhula *Kuitulasi* (roving & mat)

FRANCE

CELLATEX (a subsidiary of Rhône-Poulenc-Textile)
Rayon Givet, Ardennes & Grenoble, Isère (ind & reg yarn & staple)

COURTAULDS S.A.
Acrylic Pont du Leu, Coquelles, Pas-de-Calais *Courtelle* (staple)
Nylon 6 Pont du Leu *Celon* (yarn)
Rayon Pont du Leu (staple)

ETS. NYSAM
Nylon 6 St-Quentin, Aisne *Lilion* (yarn)

MONTEFIBRE FRANCE S.A.
Nylon 6 St-Nabord, Vosges *Montefibre* (yarn)
Polyester St-Nabord *Montefibre* (yarn)

RHONE-POULENC-FIBERS (a subsidiary of Rhône-Poulenc-Textile)
Acrylic Colmas, Haut-Rhin *Crylor* (staple)
Nylon 66 Albi, Tarn; Givet, Ardennes & St-Laurent-Blangy, Pas-de-Calais *Nylfrance* (yarn & staple)
Polyester Bezons, Val d'Oise; Gauchy, Aisne & Valence, Drôme *Tergal* (yarn & staple), *Bidim* (spunbonded)

RHOVYL (a subsidiary of Rhône-Poulenc-Textile)
Vinyon Tronville-en-Barrois, Meuse *Clévyl, Rhovyl, Thermovyl* (yarn & staple)

SOCIETE CHOMARAT
Nylon 6 Mariac (yarn - captive)

OLEFIN FIBER

PLASTIQUE DE ROUBAIX Roubaix (P film & staple)

SODOCA FABRICATION DE NONTISSES SYNTHETIQUES S.A.R.L. Neuf Brisach, Haut-Rhin (P spunbonded)

The following companies produce olefin film fiber: ETS. AMMANN & CIE., Saint-Louis; ETS. BATAILLE, Rosendael; BIHR FRERES S.A., Xertigny; BOUSSAC SAINT FRERES S.A., Flixecourt; and SEINE & LYS, Paris.

TEXTILE GLASS FIBER

OWENS-CORNING FIBERGLAS FRANCE
L'Ardoise, Gard *Fiberglas*

SAINT-GOBAIN INDUSTRIES, DIVISION VERRE TEXTILE
Chambéry, Savoie *Silionne, Stratifil, Stratimat, Verrane*

GERMAN DEMOCRATIC REPUBLIC

DEUTSCHE DEMOKRATISCHE REPUBLIK (EASTERN)

(Those facilities indicated by # are part of the trust VEB Chemiefaserkombinat Schwarza "Wilhelm Pieck.")

VEB CHEMIEFASERKOMBINAT SCHWARZA "WILHELM PIECK"
Nylon 6 Schwarza, Krs. Rudolstadt *Dederon* (yarn)
Rayon Schwarza (staple)

CHEMIEFASERWERK "FRIEDRICH ENGELS"#
Acrylic Premnitz, Krs. Rathenow *Wolpryla* (staple)
Nylon 6 Premnitz *Dederon* (staple)
Polyester Premnitz *Grisuten* (staple)
Rayon Premnitz (reg yarn)

CHEMIEFASERWERK "WILHELM-PIECK-STADT" GUBEN#
Nylon 6 Guben *Dederon* (yarn & monofil)
Polyester Guben *Grisuten* (yarn)

KUNSTSEIDENWERK "CLARA ZETKIN," ELSTERBERG#
Rayon Elsterberg, Krs. Greiz (reg yarn)

SÄCHSISCHES KUNSTSEIDENWERK "SIEGFRIED RÄDEL"#
Rayon Pirna (ind, reg & cupra yarn)
Polyester Pirna* (yarn)

SÄCHSISCHE ZELLWOLLE#
Rayon Plauen (staple)

SPINNSTOFFWERK "OTTO BUCHWITZ"#
Rayon Glauchau (staple)

ZELLSTOFF- UND ZELLWOLLWERKE WITTENBERGE#
Rayon Wittenberge (staple)

VEB FILMFABRIK FOTOCHEMISCHES KOMBINAT
Acrylic Wolfen, Krs. Bitterfeld *Wolpryla* (staple)
Rayon Wolfen (ind yarn & staple)
Vinyon Wolfen *Piviacid* (staple)

TEXTILE GLASS FIBER

VEB GLASSEIDENWERK
Oschatz *Glasseidengewebe, Glasseiden-Roving, Glasseiden-Stapelbindermatten, Glasseiden-Twist, Glasseiden-Zwirn, Roving-Gewebe*

GERMANY, FEDERAL REPUBLIC OF

BUNDESREPUBLIK DEUTSCHLAND (WESTERN)

BAYER A.G.
Acrylic Dormagen *Bayer-Textilfaser Dralon* (yarn & staple)
Nylon 6 Dormagen *Perlon-Draht* (monofil)
Spandex Dormagen *Bayer-Textilfaser Dorlastan* (fused multifil)

BOLTA WERKE G.m.b.H.
Saran Nürnberg *Bolta* (monofil)

DU PONT DE NEMOURS (DEUTSCHLAND)
Nylon 66 Uentrop, Kreis Unna (yarn & staple)
Polyester Uentrop *Dacron* (yarn, staple, tow & fiberfill)

ENKA A.G.
Nylon 6/66 Kassel & Obernburg *Enka Nylon* (yarn)
Enka Perlon (yarn & staple)
Polyester Kassel, Oberbruch & Obernburg *Diolen* (yarn & staple)
Rayon Kelsterbach, Oberbruch & Obernburg (ind & reg yarn)

E. HAHL KG•
Nylon 6 Munderkingen (staple)

HOECHST A.G.
Acrylic Kelheim/Donau *Dolan* (staple)
Polyester Bad Hersfeld, Hessen & Bobingen/Augsburg-land *Trevira* (yarn, staple & spunbonded), *Trevira-Draht* (monofil)
Rayon Kelheim/Donau (staple)

ICI EUROPA FIBRES G.m.b.H.
Nylon 66 Östringen *Bri-Nylon* (yarn & staple)
Polyester Östringen *Terylene* (yarn)

LUTRAVIL SPINNVLIES•
Nylon 6 Kaiserslautern *Lutrabond* (spunbonded)
Polyester Kaiserslautern *Lutradur* (spunbonded)

MONSANTO (DEUTSCHLAND) G.m.b.H.
Acrylic Lingen *Acrilan* (staple)

NORDDEUTSCHE FASERWERKE G.m.b.H.
Nylon 6/66 Neumünster *Siks Perlon* (yarn & staple)
Polyester Neumünster *avitron* (yarn)

PHOENIX GUMMIWERK A.G.
Saran Hamburg/Harburg *Harlan* (monofil)

HEINRICH REINHOLD KG•
Nylon 6 Selbitz, Bayern (staple)

RHODIA A.G.
Acetate Freiburg/Br. (yarn & tow)
Nylon 66 Freiburg/Br. & Rottweil a. N/Württ.
Rhoa-fil Nylon, Rhoa-spun, Rhoa-tex Helanca, (yarn & staple)
Polyester Freiburg/Br. *Rhoa-fil Tergal, Rhoa-tex Tergal* (yarn)

SPINNSTOFFABRIK ZEHLENDORF A.G.
Polyester Berlin-Zehlendorf *Trevira* (yarn & staple)

TEXTILWERKE DEGGENDORF
Nylon 66 Deggendorf (yarn)
Polyester Deggendorf (yarn)

WACKER-CHEMIE G.m.b.H.
Vinal München-Burghausen *Wacker MP-Faser* (staple)

OLEFIN FIBER

J. F. ADOLFF A.G. Backnang (P film & staple)

AMOCO FABRICS CO., DIVISION OF AMOCO (DEUTSCHLAND) G.m.b.H. Gronau (P film & staple)

J. H. BENECKE G.m.b.H. Peine *Corovin* (P spunbonded & staple)

R. B. J. RUDOLF BILLERMANN KG Emsdetten (P yarn & staple)

CHEMISCHE WERKE HÜLS A.G. Marl, Kreis Recklinghausen, Westphalia *Vestolan* (E & P monofil)

DYNAMIT NOBEL A.G. Troisdorf, Bez. Köln *Trofil* (E & P monofil & tow)

FASERWERKE BOTTROP G.m.b.H. Bottrop (P staple)

FÜSSENER TEXTIL A.G. Füssen (P film & staple)

GEO. GLEISTEIN & SOHN Bremen-Vegesack (P film & monofil)

E. HAHL KG Munderkingen (P monofil & staple)

RUDOLF HILLER KG (P monofil)

LUTRAVIL SPINNVLIES Kaiserslautern *Lutrasil* (P spunbonded)

PIELMANN (P staple)

HEINRICH REINHOLD KG Selbitz/Bayern (P staple)

SCHAEFLER

STEEN Hamburg (P staple)

WESTFALIA SPINNEREI U. KUNSTOFFWERK SCHEM KG
Minden (P monofil & film)

The following companies produce olefin film fiber: BAUMHÜTER G.m.b.H., Wiedenbrück; BREMER WOLL-KÄMMEREI, Bremen-Blumenthal; ERNST JAEGER, Düsseldorf-Reisholz; HEINZ G. JUNEMANN (NORDHESSISCHE HAARWARENFABRIK), Felsberg; KUSGA KUNSTOFFGARNE G.m.b.H Mainz; POLYDRESS PLASTIC G.m.b.H., Michelstadt; POLYUNION KUNSTSTOFFWERK, Mesum; J. SCHILGEN, Emsdetten; SPOHN G.m.b.H., Freiburg; B.T.F. TECKLENBORG & CO., Bremen-Grohn; and DR. KARL WETEKAM & CO., Melsungen.

TEXTILE GLASS FIBER

GAVETEX-TEXTILGLAS G.m.b.H.
Aachen & Dortmund-Mengede *Gevetex*

SCHULLER GLASWERKE
Westheim

GREECE

ETMA S.A.
Rayon Athens (reg yarn)
Nylon 6/66 Athens (yarn)

POLYETMA LTD.
Polyester Athens (yarn)

VOMVICRYL S.A. (affiliate of "Vomvix" S.A.)
Acrylic Stylis, near Lamia (staple, tow & tops)

GREECE *(Continued)*

"VOMVIX" S.A.
Nylon 6/66 Athens (yarn)
Polyester Athens (yarn)

OLEFIN FIBER

VIOFARM Argos (P staple)

The following companies produce olefin film fiber: ARIPLAST S.A., Athens; BIOSISAL, Athens; DESSILA, Piraeus; ELVISAK, Athens; MARINE ROPE, Athens; OLYMPIC ROPES, Piraeus; SISAL ROPERY, Salonika; C. VELLIS HEIRS S.A., Piraeus; and VESY S.A. SYNTHETIC MATERIALS INDUSTRY, Piraeus.

GUATEMALA

HILOS SINTÉTICOS CENTROAMERICANOS, S.A.
Nylon 6 San José Pinula, Guatemala (yarn) (idle)

OLEFIN FIBER

CORDELERIA LA RAPIDA Guatemala, Guatemala (P monofil)

HONDURAS

OLEFIN FIBER

POLYMER, subsidiary of United Brands San Pedro Sula (P film)

HUNGARY

MAGYAR VISCOSAGYÁR (Hungarian Viscose Factory)*
Acrylic Nyergesújfalu *Crumeron* (staple)
Nylon 6 Nyergesújfalu *Danamid* (yarn & staple)
Rayon Nyergesújfalu (staple)

OLEFIN FIBER

KENDER JUTA TEXTILIPARI V. Budapest (P film)
KENDERFONÓ ÉS SZŐVŐIPARI V. SZEGED Szeged (P film)
MAGYAR VISCOSAGYÁR Nyergesújfalu *Popril* (P staple)
SOPRONI SZŐNYEGGYÁR Sopron *Sopilen* (P yarn)
TISZA CHEMICAL COMBINE Lenin Varas (P staple)

INDIA

THE AHMEDABAD MFG. & CALICO PRINTING CO. LTD., CALICO POLYESTER FIBER DIV.
Polyester Baroda, Gujarat *Ilacron* (staple)

ANDHRA PRADESH RAYONS LTD.
Rayon Kamalapuram, Warangal District* (staple)

THE BARODA RAYON CORPORATION LIMITED
Nylon 6 Udhna, Gujarat *Snialon* (yarn)
Polyester Udhna *Sniater* (yarn)
Rayon Udhna (reg yarn)

BONGAIGAON REFINERY AND PETROCHEMICALS
Polyester Bongaigaon* (staple)

CENTURY ENKA LIMITED
Nylon 6 Bhosari, Pune, Maharashtra *Enkalon* (yarn)

CENTURY RAYON (Prop: The Century Spg. & Mfg. Co. Ltd.)
Rayon Kalyan, near Bombay, Maharashtra (ind & reg yarn)

CHEMICALS & FIBRES OF INDIA LIMITED
Polyester Thane, near Bombay, Maharashtra *Terene* (staple)

GARWARE NYLONS LIMITED
Nylon 6 Pimpri, Pune, Maharashtra *Garware* (yarn & monofil)
Polyester Pimpri (yarn)

GUJARAT NYLONS LTD.
Nylon 6 Baroda, Gujarat* (yarn)
Polyester Baroda* (staple)

THE GWALIOR RAYON SILK MFG. (WVG.) CO. LIMITED
Rayon Birlagram, Nagda, Madhya Pradesh & Birlakootam, Mavoor, Kerala (staple)

INDIAN ORGANIC CHEMICALS LIMITED
Polyester Manali, Madras, Tamil Nadu *Futura* (staple)

INDIAN PETROCHEMICALS CORPN. LTD.
Acrylic Vadodara, Gujarat *Cashmilon* (staple)

THE INDIAN RAYON CORPORATION LIMITED
Rayon Veraval, Gujarat (reg yarn)

J. K. RAYON, J. K. PURI
Rayon Kanpur, Uttar Pradesh (reg yarn)

J. K. SYNTHETICS LIMITED
Acrylic Kota, Rajasthan *Jekrilon* (staple)
Nylon 6 Kota *Jayanka, Jaycord, Jaykalon* (yarn, monofil & staple)
Polyester Kota *Jaykaylene* (yarn & staple)

JAGATJIT COTTON TEXTILE MILLS LTD. (formerly Taplon Synthetics Ltd.)
Nylon 6 Hoshiarpur, Punjab* (yarn)

KESORAM RAYON (Prop: Kesoram Industries and Cotton Mills Ltd.)
Rayon Nayasarai, Hooghly, West Bengal (reg yarn)

MODIPON LIMITED
Nylon 6 Modinagar, Uttar Pradesh *Modipon* (yarn)
Polyester Modinagar (yarn)

THE NATIONAL RAYON CORPORATION LIMITED
Nylon 6 Mohone-Kalyan, near Bombay, Maharashtra *N.R.C.* (yarn)
Rayon Mohone-Kalyan (ind & reg yarn)

NIRLON SYNTHETIC FIBRES & CHEMICALS LIMITED
Nylon 6 Bombay, Maharashtra *Nircord, Nirlon* (yarn & monofil)
Polyester Bombay *Nirester* (yarn)

ORKAY SILK MILLS
Polyester (yarn*)

PETROFILS COOPERATIVE LIMITED
Polyester Jawaharnagar, Baroda, Gujarat (yarn)

RELIANCE TEXTILE INDUSTRIES
Polyester Patalganga, Maharashtra* (yarn)

SHREE SYNTHETICS LIMITED
Nylon 6 Naulakhi, Ujjain, Madhya Pradesh *Shreelon* (yarn)
Polyester Naulakhi *Shreester* (yarn)

SHRIRAM FIBRES LIMITED
Nylon 6 Manali, Madras, Tamil Nadu *Tufcord* (yarn)

SHRIRAM RAYONS
Rayon Kota, Rajasthan (ind yarn)

THE SIRSILK LIMITED
Acetate Sirpur-Kaghaznagar, Andhra Pradesh (yarn & staple)

SOUTH INDIA VISCOSE LIMITED
Rayon Sirumughai, near Mettupalayam, Tamil Nadu (reg yarn & staple)

STRETCH FIBRES (INDIA) LIMITED
Nylon 6 Nagpur, Maharashtra *SF* (yarn)

SWADESHI POLYTEX LIMITED
Polyester Ghaziabad, Uttar Pradesh *Jailene* (staple)

TAMIL NADU INDUSTRIAL DEVELOPMENT CORP.
Polyester Madras, Tamil Nadu* (staple)
Rayon Madras* (staple)

THE TRAVANCORE RAYONS LIMITED
Rayon Rayonpuram, Kerala (reg yarn)

TUNGABHADRA FIBRES LIMITED
Rayon Munirabad, Raichus* (staple)

OLEFIN FIBER

NEOMER LIMITED Baroda, Panchmahal, Gujarat *Proplon* (P staple)

TEXTILE GLASS FIBER

FIBREGLASS PILKINGTON LIMITED
Thane, near Bombay, Maharashtra

U. P. TWIGA FIBERGLASS
Bulandshahr, Uttar Pradesh

INDONESIA

INDO-BHARAT RAYON
Rayon Desa Cilangkap, Purwakarta* (staple)

INDONESIA PENELITIHAN SELULOSA (Cellulose Research Institute)
Rayon Bandung (pilot plant) (ind & reg yarn & staple)

KUMA FIBER (P.T. Kuraray Manunggal Fibre Industries)
Polyester Cikokil, Tangerang, West Java (staple)

INDONESIA *(Continued)*

P. T. INDONESIA ASAHI CHEMICAL
Nylon 6 Jatiluhur, Purwakarta, West Java (yarn)

P. T. INDONESIA TORAY SYNTHETICS
Nylon 6 Tangerang, West Java (yarn)
Polyester Tangerang (staple)

P. T. SHINTA-INDAH DJAYA
Nylon 6 Tangerang, West Java (yarn)
Polyester Tangerang *Shinta* (yarn)

P. T. SOUTH PACIFIC VISCOSE
Rayon Purwakarta, West Java* (staple)

P. T. SUSILIA INDAH SYNTHETIC FIBRES INDUSTRIES
Polyester Jakarta* (yarn)

P. T. TEXMACO
Polyester Kaliwungu Kendal (staple)

P. T. TIFICO (P. T. Teijin Indonesia Fiber Corp.)
Polyester Tangerang (yarn & staple)

P.T. TRI REMPOA SOLO SYNTHETIC
Polyester Banaran, Solo* (staple)

P. T. YASINTA
Polyester Tangerang (yarn)

IRAN

P[illegible]SYLON CORPORATION
Nylon 6 Khoram-Abad* (yarn)

POLYACRYL IRAN CORPORATION
Acrylic Isfahan (staple)
Polyester Isfahan (yarn & staple)

SHERKAT SAHAMI ALIAF
Nylon 6 Tehran *Aliaf* (yarn)

OLEFIN FIBER

JAHANCITT SPINNING & WEAVING CO. Tehran (P film)

IRAQ

HINDIYA RAYON FACTORY
Rayon Hindiya (reg yarn & staple)

IRELAND, REPUBLIC OF (EIRE)

ASAHI SYNTHETIC FIBRES (IRELAND) LTD.
Acrylic Ballina, Mayo *Cashmilon* (staple)

LIRELLE (IRELAND) LTD.
Polyester Letterkenny, Donegal *Lirelle* (yarn)

SNIA IRELAND LIMITED
Nylon 6 Hazelwood, Sligo *Lilion* (yarn)

WELLMAN INTERNATIONAL LTD.
Nylon 6 & 66 Mullagh, Kells, Meath *Wellon* (staple)
Polyester Mullagh *Filwell, Wellene* (staple)

OLEFIN FIBER

F. DRAKE (IRELAND) LTD. Moate, Westmeath (P staple)

J. & L. F. GOODBODY (SYNTHETICS) LTD. Clara, Offaly (P yarn & film)

The following companies produce olefin film fiber: IRISH POLYSACKS LTD., Blarney, Cork; IRISH ROPES LTD., Newbridge, Kildare; and POLYTEX LTD.

ISRAEL

ISRAEL CHEMICAL FIBRES LIMITED
Acrylic Ashdod *Acrilan* (staple & tow)

NILIT
Nylon 66 Migdal Ha-Emek (yarn)
Polyester Migdal Ha-Emek (yarn)

ITALY

ANICFIBRE S.p.A (formerly Anic Società per Azioni)
(Includes former Fibra del Tirso facilities.)
Acrylic Ottana, Sardegna & Pisticci, Lucania *Euroacril* (staple & tow)
Nylon 6 Pisticci *Nivion* (yarn & staple)
Polyester Ottana & Pisticci *Fidion* (yarn, staple & tow)
Polyesteramide Pisticci (pilot plant) (yarn & staple)

AQUAFIL S.p.A.
Nylon 6 Arco di Trento, Trentino *Aqualon* (yarn)
Polyester Arco di Trento (yarn)

BEMBERG S.p.A.
Nylon 6 Gozzano, Piemonte *Ortalion* (yarn)
Rayon Gozzano (cupra yarn)

CALZIFICIO MALERBA
Nylon 66 Varese, Lombardia (yarn)

CARPEFIN S.p.A. (affiliate of Anicfibre)
Nylon 6 Forlì, Emilia Romagna (yarn)

ELASTOFIBRE
Spandex Redona, Lombardia *Vairin* (monofil)

FIBRA DEL SUD S.p.A.
Polyester Acerra, Campania (yarn, staple & tow)

FIBRA DEL TIRSO - See Anicfibre

FILATURA DI VAL LESINA S.p.A.
Polyester Andalo Valtellino, Lombardia *Valena* (yarn)

FIN NOVACETA S.p.A. (formerly Novaceta S.p.A.)
Acetate Magenta, Lombardia (yarn)

FORTEX SIDAC S.p.A.
Nylon 6 Forlì, Emilia Romagna *Forlion* (yarn)

FRATELLI FRANCHI S.p.A.
Nylon 6 Canapale, Toscana *Frankilon* (yarn)
Polyester Canapale *Frankilene* (yarn)

MEMOFIL
Nylon 6 Potenza, Basilicata (yarn)

MANIFATTURA TESSILE MIROGLIO
Polyester Alba, Piemonte (yarn)

MONTEFIBRE S.p.A.
Acetate Châtillon, Valle d'Aosta & Vercelli, Piemonte (yarn)
Acrylic Porto Marghera, Veneto *Leacril* (staple & tow)
Nylon 6 Ivrea, Piemonte *Helion* (yarn)
Nylon 66 Pallanza, Piemonte *Nailon* (yarn)
Polyester Vercelli *Terital* (staple)
Rayon Châtillon (reg yarn)

NOVACETA S.p.A. - See Fin Novaceta S.p.A.

RADICI FIL S.p.A.*
Nylon 6 Casnigo, Lombardia *Radital* (yarn & staple)

SETTE STELLE
Nylon 6 Castelgoffredo, Lombardia (yarn)

SNIA FIBRE S.p.A.
Acrylic Cesano Maderno, Lombardia & Villacidro, Sardegna *Velicren, Velicren FR* (staple & tow)
Nylon 6 Castellaccio, Lazio; Cesano Maderno; Varedo, Lombardia; & Villacidro *Lilion* (yarn, staple & tow); Padova, Veneto *Lilionette, Liliontec* (spunbonded)
Polyester Cesano Maderno; Napoli, Campania; & Varedo *Wistel* (yarn, staple & tow)
Rayon Rieti, Lazio (reg yarn), Varedo (staple)

SOCIETÀ INDUSTRIALE CREMONESE S.p.A
Rayon Pizzighettone, Lombardia (ind yarn)

SOCIETÀ ITALIANA RESINE (SIR)
Acrylic Porto Torres, Sardegna *Siracril* (staple)
Polyester Porto Torres *Siron* (staple)

TORCITURA DI BORGOMANERO S.p.A.
Nylon 6 Milano, Lombardia *Borgolon* (yarn)

OLEFIN FIBER

EUROFIL Gandino, Lombardia (P staple)

FILATURA I DELEBIO S.p.A. Delebio, Lombardia *Delebion* (P yarn, staple & film)

FILLI FRANA Casnigo, Lombardia (P staple & film)

I.T.S. (VIVALDI) Legnano (P staple & film)

LEXTOR Rosignano (P staple)

MERAK S.p.A. Terni, Umbria *Merakion* (P staple & film)

ITALY *(Continued)*

M.T.G. (P staple & film)

NEOFIL S.p.A. Milano (P yarn, staple & film)

NUOVO SAR (P staple & film)

POLYMACON Zibido S. Giacomo, Lombardia (P staple & film)

RADICI FIL S.p.A. Casnigo, Lombardia (P staple & film)

SERGEL Casnigo, Lombardia (P staple & film)

SINTOFIL (P staple & film)

TRINAFIL (P staple & film)

The following companies produce olefin film fiber: CARPET BACKING S.p.A., Ceniga; I.T.P.; LICANA NORD S.p.A., Cassano d'Adda (Milano); DE MAGISTRIS EMILIO, Bagnolo Cremasco; MILANPLAST s.r.l., Milano; MOPLEFAN S.p.A., Milano; NEOFIBRE s.r.l., Lendinara; SACHIM (MUMMOLO), Bari; S.E.A.L. S.p.A., Milano; S.I.S.A.L. S.p.A., Piacenza; STIROSIR S.p.A., Milano; and TESSITURA LOMBARDA DI CONSONNI ELIA ALBIATE.

TEXTILE GLASS FIBER

MONTEDISON
Vado Ligure, Liguria

VETRERIA ITALIANA BALZERETTI & MODIGLIANI S.p.A.
Besana Brianza, Lombardia & Livorno, Toscana *Filospun* (spun strand & roving), *TBtex* (staple, yarn & sliver), *Unifilo* (continuous mat), *Vetrotex* (yarn) & *Vetrotex RMP* (roving & mat)

JAPAN

ASAHI CHEMICAL INDUSTRY CO., LTD.
Acrylic Fuji & Nobeoka *Cashmilon, Pewlon* (yarn & staple)
Nylon 6/66 Moriyama & Nobeoka *Asahi Kasei Nylon, Leona* (yarn, monofil & spunbonded)
Polyester Nobeoka *Asahi Kasei Ester* (yarn)
Rayon Nobeoka (reg & cupra yarn, cupra staple & cupra spunbonded)
Spandex Moriyama *Roica*

ASAHI-DOW LTD.•
Saran Suzuka *Saran* (yarn, monofil & staple)

DAIWA SPINNING CO., LTD.•
Polyester Harima *Daiwabo Polyester* (staple)
Rayon Masuda (staple)

FUJI SPINNING CO., LTD.
Rayon Toyo (staple)
Spandex Kozakai *Fujibo Spandex*

JAPAN EXLAN CO., LTD.
Acrylic Saidaiji *Exlan* (staple)

KANEBO, LTD.
Rayon Hofu (staple)

KANEBO SYNTHETIC FIBERS, LTD.
Acrylic Hofu *Kanebo Acryl* (staple)
Nylon 6 Hofu *Kanebo Nylon* (yarn)
Polyester Hofu & Sabae *Kanebo Polyester* (yarn)

KANEGAFUCHI CHEMICAL INDUSTRY CO., LTD.
Modacrylic Takasago *Kanecaron, Kanekalon* (staple & tow)

KOHJIN CO., LTD.
Rayon Yatsushiro (staple)
Polychlal Yatsushiro *Cordelan* (staple)

KURARAY CO., LTD.
Polyester Saijo & Tamashima *Kuraray Ester* (yarn & staple)
Rayon Kurashiki, Saijo & Tamashima (reg yarn)
Vinal Okayama *Cremona, Kuralon* (yarn, monofil & staple)

KUREHA CHEMICAL INDUSTRY CO., LTD.
Saran Kaibara & Mibu *Kurehalon* (yarn & monofil)
Vinyon Kaibara & Mibu *Viclon* (monofil)

MITSUBISHI ACETATE CO., LTD.
Acetate Toyama (yarn & tow)
Triacetate Toyama (yarn)

MITSUBISHI RAYON CO., LTD.•
Acrylic Otake *Finel, Silpalon, Vonnel* (yarn & staple)
Polyester Toyohashi *Soluna* (yarn & staple)

NIPPON ESTER CO., LTD.
(subsidiary of Unitika, Kanebo and Mitsubishi Chemical Industry)
Polyester Okazaki & Sabae *Kanebo Ester, Unitika Ester* (yarn & staple)

NISHIKAWA CHEMICAL INDUSTRY CO., LTD.
Vinyon Iruma *Nishikalon* (yarn & monofil)

NISSHIN SPINNING CO., LTD.
Rayon Tokushima (staple)
Spandex Tokushima *Mobilon* (fused multifil)

NITIVY CO., LTD.
Vinal Fujieda *Niti-Vilon, Solvron, Vilon* (yarn)

NITTO BOSEKI CO., LTD.• (See Ube-Nitto Kasei)
Rayon Fukuyama (staple)

OMIKENSHI CO., LTD.
Rayon Kakogawa (staple)

TEIJIN ACETATE LTD. (subsidiary of Teijin Ltd.)
Acetate Matsuyama (yarn)

TEIJIN LTD.
Aramid Iwakuni *Teijinconex* (staple)
Nylon 6 Mihara *Teijin Nylon* (yarn)
Polyester Ehime, Iwakuni, Matsuyama & Tokuyama *Teijin-Tetoron* (yarn & staple)
Vinyon Iwakuni *Teviron* (yarn)

TOHO BESLON CO., LTD.
Acrylic Mishima *Beslon* (staple & tow)

TOHO RAYON CO., LTD.
Rayon Tokushima (staple)

TORAY INDUSTRIES, INC.•
Acrylic Ehime *Toraylon* (staple)
Fluoro Ehime (pilot plant) *Toyoflon* (yarn)
Nylon 6 Aichi, Nagoya, Okazaki & Shiga *Amilan, Toray Nylon* (yarn & staple)
Nylon 6/66 copolymer Aichi *Tapilon* (yarn)
Nylon 66 Aichi *Promilan* (yarn)
Polyester Ehime, Ishikawa, Mishima & Okazaki *Toray Tetoron* (yarn & staple)

TORAY-MONOFILAMENT CO., LTD.
Nylon 6 Okazaki *Toray Nylon* (monofil)

TOYO CHEMICAL CO., LTD.
Vinyon Ofuna *Envilon* (monofil)

TOYO PRODUCTS CO., LTD.
Spandex Shiga *Opelon* (fused multifil)

TOYOBO CO., LTD.
Nylon 6 Tsuruga *Toyobo Nylon* (yarn)
Polyester Iwakuni & Tsuruga *Toyobo Ester* (yarn & staple)
Promix Tsuruga *Chinon* (yarn)
Rayon Iwakuni *Tufcel* (staple)
Spandex Tsuruga *Espa*

TOYOBO PETCORD CO., LTD.
Polyester Tsuruga *Toyobo Petcord* (yarn)

UNITIKA LTD.
Nylon 6 Uji *Unitika* (yarn, monofil & staple)
Polyester Okazaki *Marix* (ind yarn & spunbonded)
Rayon Okazaki (ind yarn)

UNITIKA KASEI CO., LTD.
Vinal Sakoshi (Akoh City) *Mewlon* (yarn, monofil & staple)

UNITIKA RAYON CO., LTD.
Rayon Uji (reg yarn)

YOSHIDA KOGYO K.K.
Polyester Kurobe (yarn)

OLEFIN FIBER

ASAHI-DOW LTD. Suzuka *Bellex* (E & P monofil)

CHISSO POLYPRO FIBER CO., LTD. Moriyama *Chisso Polypro, ES Fiber* (P staple & film)

DAIWA SPINNING CO., LTD. Harima *Daiwabo Polypro* (P staple)

HAGIHARA INDUSTRY CO., LTD. Kurashiki (E monofil & film)

JAPAN *(Continued)*

HIRATA SPINNING CO., LTD. Yokkaichi *Hiralon* (E & P yarn & monofil)

INABA SEIKO, LTD. Gamagori (E monofil)

KANEYA SEIKO, LTD. Kushiro, Hokkaido (E & P monofil)

MARUAI CO., LTD. Toyohashi (E monofil)

MITSUBISHI RAYON CO., LTD. Toyohashi *Mitsubishi Pylen* (P yarn & monofil)

MITSUI TOATSU CHEMICALS, INC. Nagoya *Hi-Zex* (E monofil)

NAGANO KAKO CO., LTD. Nagano (E monofil)

SHOWA POLYMER CO., LTD. Ibaraki (E monofil & film)

TAISEI RAYON CO., LTD. Mito (E & P monofil)

TANIYAMA CHEMICAL INDUSTRY CO., LTD. Okayama *Tanikalon* (E monofil)

TOA WOOL SPINNING & WEAVING CO., LTD. Tomari *Toabo Polypro* (P staple)

TONEN SEKIYUKAGAKU K.K. (TONEN PETROCHEMICAL CO., LTD.) Kawasaki *Tapyrus* (P spunbonded)

TORAY INDUSTRIES, INC. Shiga *Toray Pylen* (P yarn & staple)

UBE-NITTO KASEI CO., LTD. Fukuyama & Gifu *Sun Line, Ube-Nitto Polypro* (E monofil & P yarn, monofil & staple)

The following companies produce olefin film fiber: DAIDO KASEI, Osaka; FUJIMOTO SANGYO, Osaka; OKAMOTO CHEMICAL, Ehime; SAKAI KASEI, Osaka; SANSO JUSHI, Yokkaichi; SANTO CHEMICAL, Aichi; SEKISUI CHEMICAL, Amagasaki & Nara; TOYAMA, Chiba; WAKO SPINNING CO., Gifu; and YAMAJIN TEXTILE, Fukui.

TEXTILE GLASS FIBER

ASAHI FIBER GLASS CO., LTD.
Ibaraki & Shonan *Glasslon*

ASAHI PPG LTD.
Plant site undetermined*

ASAHI-SCHWEBEL CO., LTD.
Moriyama

CENTRAL GLASSFIBER CO., LTD.
Matsusaka

FUJI FIBER GLASS CO.
Moka

KANEBO GLASS FIBER CO., LTD. (formerly Kanebo-Stevens Co., Ltd.)
Gunma *Textoglass*

NIPPON GLASS FIBER CO., LTD.
Ibaraki & Tsu *Micro Glass*

THE NIPPON MINERAL FIBER MFG. CO.
Tarui & Yuki *Superfine*

NITTO BOSEKI CO., LTD.
Fukushima *Iceberg*

PARAMOUNT GLASS MFG. CO., LTD.
Koriyama & Suzuka *Fether Glass*

SANRIKU FIBERGLASS INDUSTRY CO., LTD.
Fujisawa *Sanrifine*

UNITIKA U.M. GLASS CO., LTD.
Kyoto *Unitika U.M.*

KENYA

AFRICA SYNTHETIC FIBRES LTD.
Nylon 6 Thika (yarn)
Polyester Thika (staple)

KENYA FIBRE CORPORATION LTD.
Polyester Nanyuki* (yarn & staple)

OLEFIN FIBER

UNISACK LTD. Thika (P film)

KOREA, PEOPLE'S DEMOCRATIC REPUBLIC OF (NORTH)

A number of man-made fiber plants are said to be operating in North Korea (see June 1970 ORGANON issue, page 113); however, no data for this country are recorded in any table of this issue due to lack of reliable information.

KOREA, REPUBLIC OF (SOUTH)

CHEIL SYNTHETIC TEXTILES COMPANY
Polyester Kumi *Eslon* (yarn & staple)

DAE HAN SYNTHETIC FIBER COMPANY
Polyester Pusan & Ulsan *Acelan* (yarn & staple)

DAE SUNG WOOL INDUSTRIAL COMPANY (formerly Sam Duk Trading)
Polyester Seoul (yarn)

HANIL SYNTHETIC FIBER INDUSTRIAL COMPANY
Acrylic Masan *Cashmilon* (staple)

JEIL SYNTHETIC FIBERS COMPANY•
Polyester Seoul *Oplen* (yarn)

KOHAP, LTD.•
Nylon 6 Shihung *Palmylon* (yarn & staple)
Polyester Shihung (yarn & staple)

KOLON (NYLON) INC.
Nylon 6 Taegu & Kumi *Kolon* (yarn)

KOLON (POLYESTER) INC.
Polyester Kumi *Kolon* (yarn)

KORYO NYLON COMPANY
Nylon 6 Sungsumuyn (yarn)

SAM DUK TRADING COMPANY - See DAE SUNG WOOL IND. CO.

SAM KWANG MOOLSAN COMPANY, LTD.
Polyester Ki Jang (yarn)

SAM YANG COMPANY, LTD.
Polyester Chunju *Triron* (yarn & staple)

SUNKYUNG FIBRES LTD.
Acetate Suwon (yarn & tow)
Polyester Suwon & Ulsan *Sunkyung* (yarn & staple)

TAE KWANG INDUSTRIAL COMPANY
Acrylic Ulsan *Acelan* (staple)
Spandex Ulsan

TONG YANG NYLON COMPANY
Nylon 6 Anyang & Ulsan *Toplon* (yarn)
Polyester Ulsan *Toplon* (yarn)

TONG YANG POLYESTER COMPANY
Polyester Ulsan *Toplon* (yarn)

WONJIN RAYON COMPANY, LTD.
Rayon Donong *Coray* (reg yarn & staple)

OLEFIN FIBER

JEIL SYNTHETIC FIBERS COMPANY
Seoul *Oplene* (P yarn & staple)

KOHAP, LTD. Shihung *Pylon, Happylon* (P staple)

KUM SUNG SYNTHETIC FIBER CO., LTD.
Seoul *Hopelon, Polon* (P staple)

LUXEMBOURG

TECHNOFIBRES
Polyester Mertert (yarn)

Production and capacity data are combined with Belgium and the Netherlands under "Benelux" on page 84.

OLEFIN FIBER

DU PONT FIBRES S.A. Contern-Hesperange *Typar* (P spunbonded)

MALAYSIA

PENFIBRE SDN. BHD.
Polyester Penang (staple)

MALTA

MONTEFIBRE MALTA LTD.
Nylon 6 Qormi *Helion* (yarn)

Production and capacity data are combined with Italy.

MEXICO

CELANESE MEXICANA, S.A.
Acetate Ocotlán, Jalisco (yarn & staple)
Triacetate Ocotlán (yarn & staple)
Acrylic Zacapu, Michoacán (staple, tow & tops)
Nylon 6 Ocotlán & Toluca, México *Duracel, Nycel* (yarn & staple)
Polyester Ocotlán; Querétaro, Querétaro & Toluca *Crolan* (yarn & staple)
Rayon Zacapu (ind & reg yarn & staple)

CELULOSA Y DERIVADOS, S.A.
Acrylic Atequiza, Jalisco *Crysel* (staple, tow & tops)
Rayon Monterrey, Nuevo Leon (ind & reg yarn)

FIBRAS QUIMICAS, S.A.
Nylon 6 Monterrey, Nuevo León *Supernylon Cydsa* (yarn & monofil)
Polyester Monterrey *Terlenka* (yarn)

FIBRAS SINTETICAS, S.A.
Acrylic Cotaxtla, Veracruz *Fisisa* (staple, tow & tops)
Nylon 6 México, D.F. *Fisisa* (yarn & monofil)
Polyester Cotaxtla & México *Fisisa* (yarn & staple)

FIBRASOMNI, S.A.•
Nylon 6 Ixtapalapa, D.F. *Omni-Nylon* (monofil)
Saran Ixtapalapa *Omni-Saran* (monofil)

INDUSTRIAS PETROQUIMICAS MEXICANAS, S.A.
Polyester El Salto, Jalisco *Inpetmex* (yarn)

KIMEX S.A.
Nylon 6 Tlalnepantla, México *Aztecron* (yarn)
Polyester Tlalnepantla *Kintrel* (yarn)

NYLON DE MEXICO, S.A.
Nylon 6 La Leona, Nuevo León *Nylfil* (yarn & staple)
Polyester La Leona *Delcron* (yarn, staple, tow & fiberfill)
Spandex La Leona *Likra* (fused multifil)

PLASTICA MODERNA, S.A. de C.V.
Nylon 6 Tlalpan, D.F. *Perlux* (monofil)

PRODUCTOS PLASTICOS DE PUEBLA, S.A.
Nylon 6 Puebla, Puebla *Prolon* (monofil)

OLEFIN FIBER

FIBRASOMNI, S.A. Ixtapalapa, D.F. *Politen-Omni* (E monofil), *Polyprop-Omni* (P yarn & monofil)

INDUSTRIAS POLIFIL, S.A. Ixtacuixtla, Tlaxcala *Pliana* (P yarn & staple)

PLASTICOS INDUSTRIALIZADOS, S.A. Monterrey, Nuevo León (P staple)

The following companies produce olefin film fiber: HILOS Y CORDELES, S.A., Tlalnepantla, México; PLASTICEL, S.A., Monterrey, Nuevo León (*Plasticel*); and POLISAC, S.A. (affiliate of Nylon de México, S.A.), Guadalajara, Jalisco (*Polisac*).

TEXTILE GLASS FIBER

VITRO-FIBRAS, S.A.
Zacatenco, D.F. *Vitro-Fibras*

NETHERLANDS

DU PONT DE NEMOURS (NEDERLAND) N.V.
Spandex Dordrecht *Lycra* (fused multifil)

ENKA B.V.
Nylon 6 Emmen *Enka Perlon, Enkalon* (yarn)
Aramid Arnhem *Arenka* (yarn)
Polyester Breda & Emmen *Diolen, Terlenka* (yarn & staple)
Rayon Arnhem (ind yarn) & Ede (reg yarn)

OLEFIN FIBER

LANKHORST TOUWFABRIEKEN B.V. Sneek *Tiptolene* (E monofil & P film)

T.T.C. POLYOLEFINS B.V. Nijverdal (P monofil, film & staple)

N.V. VERTO Rotterdam (P film)

TEXTILE GLASS FIBER

SILENKA B.V.
Hoogezand (Groningen) *Enkafort, Silenka*

Rayon+acetate production and capacity data are combined with Belgiu page 87. Non-cellulosic production and producing capacity data are combi with Belgium and Luxembourg under "Benelux" on page 84.

NICARAGUA

OLEFIN FIBER

MANUFACTURERA CENTRO AMERICANA S.A. (MACEN) Managua (P film)

NIGERIA

NICHEMTEX INDUSTRIES LTD.
Polyester Ikorobu, Lagos *Nigerlene* (yarn & staple)

NORWAY

BORREGAARD A.S, FIBRE SECTION
Rayon Sarpsborg (staple)

OLEFIN FIBER

A/S PLATON, AVD. TEKSTIL Notodden *Filmtex* (E & P film)

NORFIL-NORPACK A/S Stavern, near Larvik *Akvaflex* (P yarn, E & P monofil & film)

STAL OG TAU Tonsberg *Norseflex* (P film)

TEXTILE GLASS FIBER

NORSK GLASSFIBER A/S
Birkeland

PAKISTAN

BENGAL FIBER INDUSTRIES, c/o BENGAL OIL MILLS LIMITED
Nylon 6 Karachi *Nylpak* (yarn)

DILON LIMITED
Nylon 6 Landhi *Dilon* (yarn)

I.C.I. PAKISTAN MANUFACTURERS LTD.
Polyester Lahore* *Tere-Pak* (yarn & staple)

NATIONAL FIBERS LIMITED
Polyester Korangi, Karachi (yarn & staple)

NILOM NYLON MILLS LIMITED
Nylon 6 Lyallpur *Nilom* (yarn & monofil)

RAVI RAYON LIMITED
Acetate Kala Shah Kaku, Sheikhupura District (yarn)

RUPALI POLYESTER LIMITED
Polyester Karachi* (yarn)

PERU

BAYER INDUSTRIAL S.A.
Acrylic Lima *Dralon* (staple)

FILAMENTOS INDUSTRIALES, S.A.
Polyester Lima (yarn)

MANUFACTURA NYLON S.A.
Nylon 6 Vitarte, near Lima (yarn)
Polyester Vitarte *Diolen* (staple)

MANUFACTURAS DEL SUR S.A.
Nylon 6 Arequipa *Long Life, Mistilon* (yarn)
Polyester Arequipa (yarn & staple)

RAYON Y CELANESE PERUANA S.A.
Acetate Lima (yarn)
Polyester Lima *Forcel* (yarn, staple, tow & tops)
Rayon Lima (reg yarn)

RETEX PERUANA, S.A.
Nylon 6 Ventanilla, Callao (yarn)

The following companies produce olefin film fiber: NORSAC S.A., Truji POLICEL DEL PERU S.A., Lima; SACOS DEL SUR S.A., Arequipa; a SACOS PISCO S.A., Pisco.

PHILIPPINES, REPUBLIC OF THE

AMERICAN PHILIPPINE FIBER
Nylon 6 San Pedro, Laguna* *APFI* (yarn)

FILIPINAS SYNTHETIC FIBER CORPORATION
Polyester Sta. Rosa, Laguna *Filsyn* (yarn & staple)

LAKEVIEW INDUSTRIAL CORPORATION
Polyester Carmona, Rizal *Licron* (yarn & staple)

PHILIPPINES *(Continued)*

PHILIPPINE POLYAMIDE INDUSTRIAL CORPORATION (PPIC)
Nylon 6 Calamba, Laguna *Philippine Polyamide* (yarn)

TEXFIBER CORPORATION
Nylon 6 Taytay, Rizal *Texfiber* (yarn)

UNIRAYON FIBER CORPORATION
Rayon Luzon* (staple)

OLEFIN FIBER

INDUSTRIAL TEXTILE MANUFACTURING CO. (ITEMCOP)
Mandaluyong, Rizal (P film)

MANILA CORDAGE COMPANY Manila (P film)

POLAND

CHODAKOWSKIE ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX"
Rayon Sochaczew (reg yarn)

PILSKIE ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX"
Polyester Piła* (yarn & staple)

WROCŁAWSKIE ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX"
Rayon Wrocław (reg yarn)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX ANILANA"
Acrylic Łódź *Anilana* (staple)
Azlon Łódź *Wipolan* (staple, casein base)
Rayon Łódź (staple)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX CELWISKOZA"
Polyester Jelenia Góra, Wrocław *Elana* (staple)
Rayon Jelenia Góra (staple)
Spandex Jelenia Góra (pilot plant) *Elaston* (yarn)

ZAKLADY WLOKIEN CHEMICZNYCH "CHEMITEX ELANA"
Polyester Toruń, Bydgoszcz *Torlen* (yarn), *Elana* (staple)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX STILON"
Nylon 6 Gorzów Wiełkopolski *Lanastil, Stilon* (yarn), *Polana* (staple)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-WISKORD"•
Rayon Szczecin-Zydowce (ind & reg yarn)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX WISTOM"
Rayon Tomaszów Mazowiecki, Łódź (ind & reg yarn & staple)

OLEFIN FIBER

ZAKŁADY PRZEMYSŁU LNIARSKIEGO LENKO Bielsko-Biala (P film)

ZAKŁADY PRZEMYSŁU LNIARSKIEGO SKARBKÓW Mirsk, Wrocław
(P staple)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX-WISKORD"
Szczecin-Zydowce (P staple)

TEXTILE GLASS FIBER

KROSNIENSKIE HUTY SZKLA
Krosno

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEX ANILANA"
Łódź *Polsilon*

PORTUGAL

COMPANHIA INDUSTRIAL DE FIBRAS ARTIFICIAIS (CIFA), S.A.R.L.
Nylon 6 Sobrado, Valongo *Cifalon* (yarn)
Rayon Sobrado (reg yarn & staple)

FIBRAS SINTÉTICAS DE PORTUGAL, S.A.R.L. (FISIPE)
Acrylic Lisbon *Vonnel* (staple, tow & tops)

FINICISA - FIBRAS SINTÉTICAS, S.A.R.L.
Polyester Portalegre, Alto Alentejo *Terylene* (staple)

TÊXTIL ARTIFICIAL DO PORTO, LDA.
Rayon Porto (reg yarn)

OLEFIN FIBER

ALICATIFAS DA LOUSA (P staple)

FERCOL (P staple)

LUSOTUFO (P staple)

QUIMIGAL - QUIMICA DE PORTUGAL, E.P. Barreiro
(P staple & film)

The following companies produce olefin film fiber: CERFIL, Maia-Douro; CORDEX - COMPANHIA INDUSTRIAL TEXTIL, S.A.R.L., Esmoriz; COTESI - COMPANHIA DE TEXTEIS SINTETICOS S.A.R.L., Carvalhos; EUROFIL - INDUSTRIAS DE PETROLEOS PLASTICOS E FILAMENTOS, S.A.R.L., Lisbon; FÁBRICA DE TAPETES VITÓRIA, Mira d'Aire; FERNANDES & COSTA, LDA., Seia; MANUEL RODRIGUES DE LIMA & FILHOS, Cortegaça; MANUEL RODRIGUES D'OLIVEIRA, S.A. LDA., M. Maia; QUINTAS & QUINTAS, Povoa de Varzim; and SICOR - SOCIEDADE INDUSTRIAL DE CORDOARIA S.A.R.L., Cortegaça.

TEXTILE GLASS FIBER

QUIMIGAL - QUIMICA DE PORTUGAL, E.P.•
Barreiro

ROMANIA

COMBINATUL DE FIBRE ARTIFICIALE
Rayon Brăila, Dej* & Suceava* (ind yarn & staple)

FABRICA DE FIBRE ARTIFICIALE "VISCOFIL"
Rayon Popesti-Leordeni, near Bucureşti (reg yarn)

FABRICA DE FIBRE ARTIFICIALE "VÎSCOZA"
Rayon Lupeni (reg yarn)

ROMCHIN STATE ENTERPRISES
Polyester Vaslui (yarn)

UZINA DE FIBRE SINTETICE IAŞI
Polyester Iaşi *Teron* (yarn, staple, tow & tops)

UZINA DE FIBRE SINTETICE SĂVINESTI
Acrylic Săvineşti, near Piatra Neamt (Bacau Region) *Melana* (staple & tops)
Nylon 6 Săvineşti *Relon* (yarn & staple)

SOUTH AFRICA, REPUBLIC OF

CONSOLIDATED TEXTILE MILLS (part of Frame Group of Companies)
Polyester Jacobs, Natal (yarn & staple - captive)

HOECHST SOUTH AFRICA (PTY.) LTD.
Polyester Milnerton, Cape Province *Trevira* (staple)

KAYMAE INDUSTRIES
Polyester *Bidim* (spunbonded)

SOUTH AFRICAN NYLON SPINNERS (PTY.) LIMITED
Nylon 66 Bellville, Cape Province *Bri-Nylon* (yarn)
Polyester Bellville & Hammarsdale, Natal *Terylene* (yarn)

OLEFIN FIBER

ROMATEX MILLS Jacobs, Natal (P film)

TEXTILE GLASS FIBER

FIBREGLASS SOUTH AFRICA (PTY.) LIMITED
New Era, Springs, Transvaal

SPAIN

BRILEN S.A.
Polyester Barbastro, Huesca & Igualada, Barcelona (yarn & staple)

CYANENKA S.A.
Acrylic Prat de Llobregat, Barcelona *Crilenka* (staple & tow)

EMPRESA NACIONAL DE CELULOSA, S.A.
Rayon Miranda de Ebro, Burgos (staple)

INDUSTRIAS DEL ACETATO DE CELULOSA, S.A. (INACSA)
Acetate La Batlloria, Barcelona (yarn)

INDUSTRIAS QUIMICAS TEXTILES S.A. (INQUITEX)
Nylon 6 Andoain, Guipuzcoa *Carbyl, Nylhair, Trinyl* (yarn & staple)

LA SEDA DE BARCELONA, S.A.
Nylon 6 Alcalá de Henares, Madrid *Dayan, Enkalon* (yarn & staple)
Polyester Prat de Llobregat, Barcelona *Terlenka* (yarn & staple)
Rayon Prat de Llobregat (ind & reg yarn)
Spandex Prat de Llobregat *Enkaswing* (fused multifil)

MONTEFIBRE HISPANIA S.A.
Acrylic Miranda de Ebro, Burgos *Leacril* (staple)

NUREL S.A.
Nylon 6 Zaragoza, Zaragoza *Nurel* (yarn)
Polyester Zaragoza *Terylene* (yarn & staple)

SOCIEDAD ANONIMA DE FIBRAS ARTIFICIALES (SAFA)
Nylon 66 Blanes & San Julian de Ramis, Gerona *SAFA* (yarn & staple)
Polyester Blanes *Tergal, Teriber* (yarn & staple)
Rayon Blanes (staple)

SPAIN *(Continued)*

SOCIEDAD NACIONAL DE INDUSTRIAS APLICACIONES CELULOSA ESPANOLA, S.A. (SNIACE)
Nylon 6 Torrelavega, Santander *Lilion* (yarn)
Rayon Torrelavega (reg yarn & staple)

OLEFIN FIBER

PAULAR, S.A. - EMPRESA PARA LA INDUSTRIA QUIMICA
Puertollano, C.R. *Istrakin* (P monofil & film)

PROFILEX (P staple)

PROPILAN (P staple)

SERINA TEXTIL (P staple)

SOCIEDAD ANONIMA ITALO ESPANOLA (SAITES) Sabadell, Barcelona (P staple & film)

TEXTIL ARMENGOL Bruch, Barcelona (P staple & film)

The following companies produce olefin film fiber: CONDEROLS S.A., Granada; CORDELERIAS BARAS S.A., Gijon, Asturias; CORDELERIAS MAR S.A., Vigo, Pontevedra; HILATURAS Y CORDELERIA S.A. - "HILCOSA," Barcelona; HIRESA, Callosa de Segura, Alicante; and YUTE INDUSTRIAL S.A., Valencia.

TEXTILE GLASS FIBER

FIBRAS MINERALES, S.A.
Alcalá de Henares, Madrid *Vitrotex*

SRI LANKA

CEYLON PETROLEUM CORPORATION
Nylon 6 Sapugaskanda, near Colombo* (yarn & monofil)

SWEDEN

SONESSON PLAST AB•
Nylon 6/66 Malmö (monofil)

SVENSKA RAYON AKTIEBOLAGET
Rayon Älvenäs, Vålberg (staple)

OLEFIN FIBER

SONESSON PLAST AB Malmö *Laveten* (E & P monofil)

TEXTILE GLASS FIBER

SCANDINAVIAN GLASFIBER AKTIEBOLAG
Falkenberg

SWITZERLAND

EMS INDUSTRIES, LTD.
Nylon 6 Ems, Graubünden *Grilon* (yarn & staple)
Polyester Domat/Ems *Grilene* (staple)

VISCOSUISSE AG
Nylon 6/66 Emmenbruecke, Luzern & Widnau, St. Gallen *Nylsuisse*,
Polyester Widnau *Tersuisse* (yarn) *Flixor* (yarn)
Rayon Emmenbruecke (reg yarn)

The following companies produce olefin film fiber: AROVA SCHAFFHAUSEN A.G., Schaffhausen and VOGT & CO., Reinach.

THAILAND

ASIA FIBER CO. LTD.
Nylon 6 Samut Prakarn *A.F.C.* (yarn)

HANTEX CORPORATION LTD.
Nylon 6 Mahacha, Samut Sakorn (yarn)

ORIENTAL FIBRE
Polyester Samut Sakhorn (yarn)

TEIJIN POLYESTER (THAILAND) LIMITED
Polyester Rangsit, Bangkok *Teijin-Tetoron* (yarn & staple)

THAI MELON POLYESTER CO. LIMITED
Polyester Pathumthani, near Bangkok (yarn & staple)

THAI RAYON CO. LTD.
Rayon Ang Thong (staple)

TORAY NYLON THAI COMPANY
Nylon 6 Bangkaen, Bangkok *TNT* (yarn & monofil)
Polyester Bangkaen *Toray Tetoron* (yarn)

TURKEY

AKRILIK KIMYA SANAYII A.S. (AKSA)
Acrylic Yalova *Aksa* (staple)

FILAMENT SENTETIK IPLIK VE ELYAF SANAYII A.S.
Polyester Bursa *Filament* (yarn & staple)

GEMLIK SUNI IPEK VE VISKOZ MAMULLERI SANAYII MÜESSESESI (GEMLIK ARTIFICIAL SILK & VISCOSE PRODUCTS INDUSTRY)
(Operated by The Sumerbank)
Rayon Gemlik (reg yarn & staple)

INSA ISTANBUL NAYLON SANAYI A.S.
Nylon 6 Istanbul *Islon* (yarn)
Polyester Istanbul (yarn)

M.N. SABUNCU
Polyester Adana *MNS* (yarn)

POLYLEN SENTETIK IPLIK SANAYII A.S.
Polyester Bursa *Polylen* (yarn)

SANCAK TÜL SANAYII LTD., STI.
Polyester Istanbul *Lalelen* (yarn)

SASA SUNI VE SENTETIK ELYAF SANAYII A.S.
Polyester Adana *Perilon* (yarn & staple)

SENTETIK IPLIK FABRIKALARI, A.S. (SIFAS) (SYNTHETIC YARN FACTORIES CORPORATION)
Nylon 6 Bursa *SIFAS* (yarn & staple)
Nylon 66 Bursa (yarn)
Polyester Bursa (yarn & staple)

TEKSTIPLIK SANAYII VE TICARET A.S.
Nylon 6 Edirne *Dimlon* (yarn)

YALOVA ELYAF VE IPLIK SANAYII VE TICARET A.S.
Acrylic Yalova *Yalova* (staple & tow)
Modacrylic Yalova *Yalova* (staple & tow)

OLEFIN FIBER

DEGIRMENCILIK A.S. Kayseri (P yarn)

ELSAN ELYAF SANAYI VE TICARET A.S. Istanbul (P staple)

SENIPEK TEKSTIL SANAYI VE TICARET A.S. Bursa (P yarn)

TEXTILE GLASS FIBER

CAM ELYAF SANAYII A.S.
Cayirova-Gebze (Izmit)

UNION OF SOVIET SOCIALIST REPUBLICS

The incomplete and perhaps inaccurate plant listings shown on page 93 of the June 1971 issue are not repeated here.

Rayon plants have been reported at Balakovo, Barnaul, Cherkassy (Ukraine), Kalinin, Kamensk, Kiev, Klin, Krasnoyarsk, Leningrad, Mogilev, Ryazan, Saratov, Sokol, Sverdlovsk and Svetlogorsk.

Acetate plants have been reported at Engels, Fergana, Kaunas, Kirovakan and Moscow.

Nylon plants are reported at Barnaul, Chernigov, Daughavpils, Engels, Grodno, Kemerovo, Kiev, Klin, Kursk, Leningrad, Rustavi, Shchekino and Zhitomer.

Other non-cellulosic fiber plants are located at Kustanay (vinyon), Minsk (polyester), Mogilev (polyester), Navoi, Polotsk (acrylic+modacrylic) and Saratov.

Textile glass fiber plants are reported at Astrakhan, Kalinin, Khabarovsk, Leningrad, Mingechaur, Moscow, Polotsk, Salavat, Saratov, Sevan and Severodonetsk.

UNITED KINGDOM

ANGLIA FIBRES LTD.•
Polyester Hadleigh, Suffolk (monofil)
Polyvinylfluoride Hadleigh *Kynar* (monofil)
Saran Hadleigh *Saran* (monofil)

BRITISH CELANESE LTD. - See Courtaulds Acetate Ltd.

BRITISH ENKALON LTD.
Nylon 6 Antrim, Antrim, N. Ireland *Enkalon* (yarn)

COURTAULDS ACETATE LTD. (formerly British Celanese Ltd.)
Acetate Coventry, Warwickshire; Lancaster, Lancashire; Spondon, Derbyshire; & Wrexham, Clwyd, Wales (yarn & staple)
Triacetate Coventry & Spondon (yarn & staple)

UNITED KINGDOM *(Continued)*

COURTAULDS, LIMITED
Acrylic Grimsby, Lincolnshire *Courtelle* (staple)
Modacrylic Coventry *Teklan* (staple)
Rayon Grimsby; Holywell, Clwyd, Wales (staple)

DU PONT (U.K.) LIMITED
Spandex Maydown, Londonderry, N. Ireland *Lycra* (fused multifil)

HOECHST FIBRE INDUSTRIES UK LTD.
Polyester Limavady, Londonderry, N. Ireland *Trevira* (yarn & monofil)

ICI FIBRES (a division of Imperial Chemical Industries Ltd.)
Nylon 66 Doncaster, Yorkshire; Gloucester, Gloucestershire & Pontypool, Gwent, Wales *Bri-Nylon, Counterstat, Pavenne, Tendrelle, Timbrelle* (yarn, staple & tow)
Biconstituent Pontypool *Cambrelle, Floratex,Terram* (melded fabrics)
Polyester Pontypool; & Wilton, Yorkshire *Milvelle, Terylene* (yarn, staple & tow)

MONSANTO LIMITED
Acrylic Coleraine, Londonderry, N. Ireland *Acrilan* (staple, tow & tops)

NYMOFIL LTD.
Nylon 6 & 66 Poulton-le-Fylde, Lancashire (monofil)
Polyester Poulton-le-Fylde (monofil)

PERI-LUSTA LTD.
Nylon 6/66 Leek, Staffordshire (monofil)

OLEFIN FIBER

AMOCO FABRICS, DIVISION OF AMOCO (U.K.) LTD.
Consett, Durham (P film)

ANGLIA FIBRES LTD. Hadleigh, Suffolk *TPX* (E & P monofil)

BELFAST ROPEWORK CO. LTD. Belfast, N. Ireland *Bluebell* (E & P monofil, P yarn, staple & film)

CROMPTON AND BROTHERS (P staple)

DON FIBRES LTD. Forfar, Angus, Scotland (P yarn, monofil, staple & film)

F. DRAKE (FIBRES) LIMITED Colcar, Huddersfield, Yorkshire *Gymlene* (P staple)

FILTRONA TEXTILE PRODUCTS LIMITED Dundee, Angus, Scotland *Filtrona* (P film), *Filtrona Fibre* (P staple)

FLEMMING'S ROPE & TWINES (WOOLSTON) LTD. Warington, Lancs. (P monofil)

GREENVILLE CARPETS LTD. Belfast, N. Ireland (P yarn)

HALL'S BARTON ROPERY CO. LTD. Hull, Yorkshire (P film and E & P monofil)

THE HAWKINS AND TIPSON GROUP Hailsham, East Sussex (P staple & film)

McCLEERY L'AMIE GROUP LTD. Belfast, N. Ireland (P yarn)

NORTHERN IRELAND CARPETS LTD. Belfast, N. Ireland (P staple)

PLASTICISERS LTD. Drighlington, Yorkshire *Drylene* (E monofil), *Charisma, Duron, Fibrite, Tritor* (P yarn, monofil, film & staple)

POLYOLEFIN FIBRES & ENGINEERING LTD. Bradford, Yorkshire *Downspun* (P staple)

The following companies produce olefin film fiber: BONAR TEXTILES LTD., Dundee, Angus, Scotland; BRIDON FIBRES & PLASTICS LTD., Gateshead & Sunderland, Durham & Wallsend, Northumberland *Broplene, Red Star, Viking*; FAIRBAIRN LAWSON PACKAGING LTD., Barnsley, Yorkshire; POLYTAPE LTD., Dundee, Angus, Scotland *Propafil, Propatape;* ROKO CONTAINERS Nottingham; ROTHES PLASTICS LTD., Glenrothes, Fife, Scotland; SMITH & NEPHEW POLYFABRIK LTD., Newhey, near Rochdale, Lancashire *Polyweave;* SYNTHETIC FABRICS (SCOTLAND) LTD. Forfar, Angus; SYNTHETIC INDUSTRIES (IRELAND) LTD., Newry, Down, N. Ireland; TALBOT WEAVING CO. LTD., Chorley, Lancashire; and TAY TEXTILES, Dundee, Angus, Scotland.

TEXTILE GLASS FIBER

FIBREGLASS LIMITED (subsidiary of Pilkington Brothers Ltd.)
Wrexham, Clwyd, Wales *Fiberglass*

TBA INDUSTRIAL PRODUCTS LTD.
Camberley, Surrey & Hindley Green, Lancashire

FIBREGLASS-REGINA, a joint venture of FIBREGLASS LTD. and the BBA GROUP LTD., is producing textile glass tissue (voile) at Liversedge and St. Helens, Merseyside.

UNITED STATES OF AMERICA

ALLIED FIBERS AND PLASTICS COMPANY
Nylon 6 Columbia, SC & Hopewell, VA *A.C.E., Anso, Caprolan, Nypel* (yarn, monofil & staple)
Polyester Moncure, NC *A.C.E.* (yarn & monofil)

AMERICAN CYANAMID COMPANY, FIBERS DIVISION
Acrylic Santa Rosa, FL *Creslan* (staple & tow)

AMERICAN ENKA COMPANY, A PART OF AKZONA, INC.•
Nylon 6 Enka, NC, Central, SC & Lowland, TN *Crepeset, Enka, Enkaloft, Enkalure, Enkasheer, Enkatron, Multisheer, Phase 7, Softalon, Zantrel* (yarn, monofil & staple)
Polyester Central & Lowland *Encron, Encron 8, Enka, Golden Glow, Golden Touch, Silky Touch, Strialine, Ultra Touch* (yarn & staple)
Rayon Lowland (staple)

AMERICAN HOECHST CORPORATION
HOECHST FIBERS INDUSTRIES DIVISION
Polyester Spartanburg, SC *Trevira* (yarn & staple)
Delaware City, DE (monofil)

AMETEK INC., SPECIAL FILAMENTS DIVISION•
Nylon 6, 66, 612 & 11 Odenton, MD (monofil)
Polyester Odenton (monofil)
Saran Odenton (monofil)

AVTEX FIBERS INC.
Acetate Meadville, PA (yarn)
Polyester Lewiston, PA *Avlin* (yarn)
Rayon Front Royal, VA (ind yarn & staple)
Vinyon Meadville (staple)

BADISCHE CORPORATION
Acrylic Williamsburg, VA *Zefran* (staple)
Nylon 6 Anderson, SC *Zeftron* (yarn & staple)

BERKLEY & CO. INC.•
Nylon 6 Spirit Lake, IA (monofil)

CAMAC CORPORATION
Nylon 6 Bristol, VA *Camalon* (yarn)

CELANESE FIBERS COMPANY, A DIVISION OF CELANESE CORPORATION•
Acetate Cumberland, MD (Amcelle), Rock Hill, SC (Celriver) & Narrows, VA (Celco) (yarn, staple & tow)
Triacetate Cumberland & Rock Hill (yarn, staple & tow)

CORTLAND LINE COMPANY
Nylon 6 Cortland, NY (monofil - captive)

COURTAULDS NORTH AMERICA INC.
Nylon 6 Le Moyne, Mobile County, AL *Courtaulds, Shareen* (yarn & monofil)
Rayon Le Moyne (staple)

E. I. DU PONT DE NEMOURS & COMPANY (INC.)
TEXTILE FIBERS DEPARTMENT•
Acrylic Camden, SC & Waynesboro, VA *Orlon* (staple & tow)
Fluoro Richmond, VA *Teflon* TFE- & FEP-fluorocarbon fiber (yarn, monofil, staple, tow & flock)
Nylon 66 Seaford, DE, Camden, SC, Chattanooga, TN and Martinsville, Richmond & Waynesboro, VA *Antron, Cantrece, Cordura, Du Pont, Hyten* (yarn, monofil, staple & tow)
Aramid Richmond *Kevlar* (yarn), *Nomex* (yarn, staple & tow)
Polyester Kinston & Wilmington, NC, Camden & Charleston, SC and Chattanooga & Old Hickory, TN *Dacron, Hollofil* (yarn, staple, tow & fiberfill), *Reemay* (spunbonded), *Sontara* (spunlaced)
Spandex Waynesboro *Lycra* (fused multifil or coalesced monofil)
PLASTICS PRODUCTS & RESINS DEPARTMENT
Nylon 6, 66, 612 & Polyester Parkersburg, WV *Dacron, Dymetrol, Tynex, Vylor* (monofil of 50,denier & coarser)

26

U.S.A. *(Continued)*

EASTMAN KODAK COMPANY
CAROLINA EASTMAN COMPANY
Polyester Columbia, SC *Kodel* (yarn & staple)
TENNESSEE EASTMAN COMPANY
Acetate Kingsport, TN (yarn)
Modacrylic Kingsport *Verel* (staple)
Polyester Kingsport *Kodel* (yarn & staple)

FIBER INDUSTRIES, INC.• (subsidiary of Celanese Corporation)
Polyester Fayetteville, Salisbury & Shelby, NC and Darlington & Greenville, SC *Angelette, ECF, Fortrel, Lambda, Polarguard, Serene, Superba* (yarn, staple, tow & fiberfill)

FIRESTONE FIBERS & TEXTILES COMPANY, DIVISION OF FIRESTONE TIRE & RUBBER COMPANY
Nylon 6 Hopewell, VA (yarn & monofil)
Polyester Hopewell (yarn)

GLOBE MANUFACTURING CO.
Spandex Fall River, MA & Gastonia, NC *Cleerspan, DC-100, DC-700, Glospan* (fused multifil)

THE GOODYEAR TIRE & RUBBER COMPANY, CHEMICAL DIVISION
Polyester Scottsboro, AL & Point Pleasant, WV (yarn - captive)

GUILFORD MILLS, GAINESVILLE DIVISION
Nylon 6 Gainesville, GA (yarn & monofil - captive)

HANOVER MILLS, INCORPORATED
(subsidiary of Falk Fibers & Fabrics Inc.)
Nylon 6 Yanceyville, NC *Hanover* (yarn & monofil)

JOHNSON FILAMENTS, INC. (subsidiary of JWI Ltd.)
Nylon 6/66 Williston, VT (monofil)
Polyester Williston (monofil)

KAYSER-ROTH CORPORATION, YARN PROCESSING DIVISION
Nylon 66 Creedmoor, NC (yarn - captive)

MEYERS FIBERS, INC.
Polyester Ansonville, NC (yarn)

MONOFILAMENTS, INC.
Nylon 6/66 Waynesboro, VA (monofil)
Polycarbonate Waynesboro (monofil)
Polyester Waynesboro (monofil)

MONSANTO COMPANY
MONSANTO TEXTILES COMPANY
Acrylic Decatur, AL *Acrilan, Bi-Loft, Fi-Lana, Pa-Qel, Remember, So-Lara* (staple & tow)
Modacrylic Decatur *SEF* (staple & tow)
Nylon 66 Pensacola, FL & Greenwood, SC *Blue C, Cadon, Cumuloft, Ultron, Ultron Z* (yarn, monofil & staple), *Cerex* (spunbonded)
Polyester Decatur *Blue C* (yarn & staple)
MONSANTO POLYMERS AND RESINS COMPANY
Nylon 66 Pensacola *AstroTurf* (recreational & landscaping surfaces)

NEWTON FILAMENTS INC.• (an Albany International Company)
Nylon 6, 66 & 612 Homer, NY (monofil)
Polyester Homer (monofil - regular & hydrolysis-resistant)
Fluoro Homer *Halar, Kynar, Teflon, Tefzel* (monofil)

NORTH AMERICAN RAYON CORPORATION
Rayon Elizabethton, TN (ind & reg yarn and tow)

SHAKESPEARE COMPANY, MONOFILAMENT DIVISION
Nylon 6/66 Columbia, SC *Sooflex, Superflex, S-3, Wonderthread* (monofil)
Polyester Columbia *Shakespeare Wonderthread* (monofil)

STAR FIBERS, INC.
Nylon 6 Edgefield, SC *Starbrite* (staple)

TEXFI INDUSTRIES, INC.
Polyester Asheboro & New Bern, NC (yarn) (idle)

UNIROYAL TEXTILE, DIVISION OF UNIROYAL, INC.
Nylon 6 Shelbyville, TN (monofil - captive)

UNIVERSAL POLYMER PRODUCTS CORPORATION
(subsidiary of Falk Fibers & Fabrics Inc.)
Polyester Fuquay-Varina, NC (yarn & monofil)

WELLMAN, INC., MAN-MADE FIBER DIVISION
Nylon 6 & 66 Johnsonville, SC *Wellon, Wellstrand* (monofil, staple, tow & tops)
Polyester Johnsonville *Wellene* (monofil, staple, tow & tops)

OLEFIN FIBER

ACS INDUSTRIES, INC. Woonsocket, RI (P yarn & staple)

AMERICAN MANUFACTURING COMPANY
HONESDALE ROPE DIVISION Honesdale, PA (E & P monofil & film)
LAFAYETTE ROPE DIVISION Lafayette, LA *Amco, American, Bondtie, Floterope* (E & P monofil)

AMETEK INC., SPECIAL FILAMENTS DIVISION Odenton, MD (E & P monofil)

AMOCO FABRICS COMPANY, PATCHOGUE PLYMOUTH DIVISION
(includes former Sunburst Yarns, Inc. facilities)
Roanoke, AL, Bainbridge, Hazlehurst & Nashville, GA, Afton, VA *Patlon, Patlon Plus* (P yarn, monofil, film & staple)

ARLIN MFG. CO., INC. Lowell, MA (P film)

ARMSTRONG WORLD INDUSTRIES, INC. Charlotte, NC (P film - captive)

BEMIS COMPANY, INC. Talladega, AL & St. Louis, MO (P film)

BERKLEY & CO. INC. Spirit Lake, IA (E & P monofil - captive)

BLUE MOUNTAIN EXTRUSIONS Anniston, AL *Gold Medal, Poly Autotwine, Poly Macramé, Polylasting, Ty-EZ Polytape, Tylon, Tytite* (E & P film)

BRIDON CORDAGE INC. Albert Lea, MN (P film)

CELANESE FIBERS COMPANY Moultrie, GA (P film - captive)

CHASE BAG COMPANY Orange, CA & New Orleans, LA (P film)

CHEVRON FIBERS, INC. (a subsidiary of Chevron Chemicals Co.)
POLYLOOM PRODUCTS Dayton TN *Polyloom* (P film)
VECTRA PRODUCTS Odenton MD *Vectra* (P yarn & staple)

THE COLUMBIAN GROUP, DIVISION OF THE COLUMBIAN ROPE COMPANY
Jefferson, LA & Auburn, NY *Manipro, Poly K, Poly Twine, Radiant Twine* (E & P monofil & film)

CONCORDE FIBERS, INC. Jamestown, SC (P yarn)

CROWE ROPE COMPANY Warren, ME *Crowelon* (P monofil)

CROWN ZELLERBACH CORPORATION, NONWOVEN FABRICS DIVISION
Camas, WA *Fibretex* (P spunbonded)

E. I. DU PONT DE NEMOURS & COMPANY (INC.), TEXTILE FIBERS DEPT. Old Hickory, TN & Richmond, VA *Typar* (P spunbonded), *Tyvek* (E spunbonded)

ELIZABETH WEBBING MILLS CO., INC. Central Falls, RI (P film)

ENSIGN-BICKFORD INDUSTRIES, INC., FILM FIBERS DIVISION
Simsbury, CT (P film)

EXXON CHEMICAL AMERICAS, INDUSTRIAL TEXTILES DIVISION
Kingman, KS & Summerville, SC (P monofil & film)

FNT INDUSTRIES INC. Menominee, MI (E monofil)

FIBER INDUSTRIES, INC. (subsidiary of Celanese Corporation)
Darlington, SC *Mirafi 140s* (melded fabric)

FIBERS & FABRICS OF GEORGIA, INC. (subsidiary of Georgia Synthetics, Inc.) Elberton, GA (E & P yarn & monofil)

FIBERS SOUTH Trussville, AL (E & P Film)

FIBRON, A PART OF AMERICAN ENKA Chattanooga, TN
Fibri-Cord, Fibri-Knit, Fibrilawn, Fibrilon (P film)

GENERAL FIBERS & FABRICS, INC. LaGrange, GA (P film)

GEORGIA SYNTHETICS, INC. Elberton, GA (E & P yarn, monofil & film)

GLADDING CORP., CORDAGE DIVISION South Otselic, NY (P monofil)

HERCULES INCORPORATED,FIBERS MARKETING DIVISION
Oxford, GA *Herculon* (P yarn & staple)

THE HOOVEN & ALLISON COMPANY Xenia, OH (P film)

JACKSON ROPE COMPANY, DIVISION OF TUBBS CORDAGE COMPANY
Austin, TX (P monofil & film)

U.S.A. *(Continued)*

OLEFIN FIBER *(Continued)*

KELLER INDUSTRIES, INC. Swainsboro, GA (P monofil - captive)

KIMBERLY-CLARK CORPORATION Corinth, MS*, Balfour, NC & Neenah, WI *Evolution* (P spunbonded), *Evolution II* (P spunbonded meltblown & P meltblown)

LAMBETH CORPORATION New Bedford, MA *Lambeth* (E & P monofil)

LAWRENCE HOSE COMPANY (a Consolidated Foods Company) Burlington, NC (E monofil - captive)

LORETEX, DIVISION OF OIVIND LORENTZEN, INC. Guilderland Center, NY (E film - captive)

MONTAIR CORPORATION - see Wellington Puritan Mills

NSI, INC. Soperton, GA (P film - captive)

NEWTON FILAMENTS, INC. (an Albany International Company) Homer, NY (E & P monofil)

THE OSTERNECK COMPANY Lumberton, NC (P film)

PHILLIPS FIBERS CORPORATION (subsidiary of Phillips Petroleum Company) Rocky Mount, NC & Spartanburg, SC *Marvess* (P yarn, staple & tow)

SHUFORD MILLS, INC. Hickory, NC (P film)

SUNSHINE CORDAGE CORPORATION Miami, FL *Cala-Line, Oletex, Poncar, Sunshine, Sunylon, Sunypool* (E & P monofil)

SYNTHETIC INDUSTRIES (includes former Plant Industries [Texas] Inc., facilities) Chickamauga, GA & Houston, TX (P film - captive)

TUBBS CORDAGE COMPANY Orange, CA *Loktite* (P monofil & film) Also see Jackson Rope Company

TWINE PRODUCTS CORPORATION New Orleans, LA (P film)

UNITED STATES ROPE COMPANY Menlo Park, CA (P monofil)

WALL INDUSTRIES, INC. Beverly, NJ (E & P monofil)

WALTRICH PLASTIC CORPORATION Tennent, NJ (P monofil)

WAYN-TEX, INC. Waynesboro, VA *Beamette, Waynfil* (E & P yarn & monofil & P film)

WELLINGTON PURITAN MILLS (MONTAIR DIV.) (formerly Montair Corporation) Pilot Mountain, NC *Welltite, Pur-Ty* (E & P monofil and film)

WELLINGTON SYNTHETIC FIBRES, INC.
PLASTIC WOVEN PRODUCTS DIVISION
Leesville & Summerville, SC (P yarn, E & P monofil)

The following companies are also producing a variety of textile products from olefin: CONWED CORP. *Conwed Plastic Netting* (P embossed film for netting); E. I. DU PONT DE NEMOURS & COMPANY (INC.) (E & P embossed film for netting); HERCULES INCORPORATED, POLYMERS DIVISION *Delnet* (E embossed film for netting); NALLE INC. (P embossed film for netting); RIEGEL PRODUCTS CORPORATION *Polyweb* (P meltblown); and THE 3M COMPANY (P spunbonded).

TEXTILE GLASS FIBER

CERTAINTEED CORPORATION,
FIBERGLASS REINFORCEMENTS DIVISION
Wichita Falls, TX (roving, woven roving, mat, chopped strand & combination product)

JOHNS-MANVILLE SALES CORPORATION, FILTRATION & MINERALS DIVISION Waterville, OH & Etowah, TN *Chop-Pak* (chopped strand)

LUNDY TECHNICAL CENTER
Pompano Beach, FL *RoMHOglas* (metallized glass fiber roving, strand & mat)

NICOFIBERS INC.
Shawnee, OH *Conformat, Consurmat, Surmat* (mat)

OWENS-CORNING FIBERGLAS CORPORATION
Huntingdon, PA, Ashton, RI, Aiken & Anderson, SC, Jackson, TN and Amarillo, TX *Activa, Araton, Beta, Bi-Ply, Fiberglas, S-Glass, S-2 Glass* (yarn, roving, spun roving, woven roving, mat, chopped strand, milled and staple yarn & sliver)

PPG INDUSTRIES, INC., FIBER GLASS DIVISION
Lexington & Shelby, NC *Azdel* (yarn, roving, woven roving, mat, chopped strand & rubber reinforcements)

REICHHOLD CHEMICALS, INC.
CHEMGLASS DIVISION Irwindale, CA *Chemglass* (roving)
FIBERGLASS DIVISION Nashville, TN (roving, woven roving, mat, chopped & milled)
GLASS FIBER DIVISION Bremen, OH *Modiglass* (mat)

URUGUAY

HILADOS SINTETICOS S.A. (HISISA)
Nylon 66 Estacion Manga, Montevideo *Hisilon* (yarn)

POLIMEROS URUGUAYOS S.A.
Polyester San Jose, San Jose (staple)

SINTETICOS SLOWAK S.A.
Nylon 6 Montevideo *Crofil* (yarn & monofil)
Polyester Montevideo *Terpol* (yarn)

URACE S.A. (affiliate of Sudamtex de Uruguay S.A.)
Acetate Colonia (yarn)

OLEFIN FIBER

ARYN S.A. Montevideo (E monofil)

CINCA S.A. Montevideo (E film)

ELABORADORA DE ARPILLERA SINTETICA S.A. (E film)

UDINE S.A. (E monofil)

VENEZUELA

C.A. INVERSIONES ARAGUA
Nylon 6 Maracay *Sudalon* (yarn)

CELANESE VENEZOLANA S.A.
Acetate Valencia (yarn)
Nylon 6 Valencia *Celanese* (yarn)
Polyester Valencia *Fortrel* (yarn & staple)

DOUGHERTY CORDAGE MILL
Nylon 6 Caracas (yarn)

HILADOS FLEXILON
Nylon 6 Caracas (yarn)
Polyester Caracas (yarn)

KURAVEN CO., LTD.
Polyester Maracay *Venecron* (staple)

SUDAMTEX DE VENEZUELA, C.A.
Polyester Maracay (yarn & staple)

VENASETA C.A.
Acetate Maracay (yarn)

YUGOSLAVIA

HEMTEKS
Polyester Skopje, Macedonia *Maklen* (yarn & staple)

INCEL FABRIKA CELULOZE I VISKOZE
Polyester Banja Luka, Bosna i Hercegovina *Belira* (yarn)
Rayon Banja Luka (staple)

INDUSTRIJA SINTETICKIK VLAKANA (PROGRES)
Nylon 6 Prizren, Kosovo Mitohijan *Supralon* (yarn)
Polyester Istok, Kosovo Mitohijan & Prizren *Prizrenit* (yarn)

KEMICNA TOVARNA MOSTE
Nylon 6 Ljubljana, Slovenia *Yulon* (yarn)

ORGANSKO HEMIJSKA INDUSTRIJA SKOPJE (OHIS)
Acrylic Skopje, Macedonia *Makrolan, Malon* (staple)

TEKSTILNA INDUSTRIYA "ZELE VELJKOVIC"
Nylon 6 Leskovac* (yarn & staple)

VARAZDINSKI TEKSTILNI KOMBINAT (VARTEKS)
Polyester Varazdin (staple)

VISKOZA
Rayon Loznica, Serbia (ind & reg yarn & staple)

OLEFIN FIBER

HEMIJASKA INDUSTRIJA U OSNIVANJU Belgrade (P staple)

TEXTILE GLASS FIBER

GOSTIVAR STAKLARA
Staklara (roving & mat)

WORLD MAN-MADE FIBER PRODUCER AFFILIATIONS & PERCENTAGE OF CAPITAL CWNERSHIP

Licensing and royalty agreements are ot taken into account. The ownership of companies other than man-made fiber producers is not listed, e.g., weaving mills, chemical producers, etc.

For each country, the percentage following the first-named producer is the portion owned by the captioned company; the remainder of the entry shows other ownership. For example, Akzo N.V. owns 25% of Cyanenka of Spain, while American Cyanamid owns 40% and La Seda de Barcelona owns 35%. Also note that Akzo owns 57% of La Seda de Barcelona.

AKZO N.V. (NETHERLANDS)

Argentina	Petroquimica Sudamerica 40%
Austria	Erste Österreichische Glanzstoff-Fabrik 93%
Brazil	Companhia Bahiana de Fibras 45%; others 55% Polyenka 51%; others 49%
Colombia	Enka de Colombia 48%; others 52%
Ecuador	Enkador 48%; others 52%
Germany	Enka 97%; public 3%
India	Century Enka 39%; others 61%
Ireland	See British Enkalon under United Kingdom below.
Mexico	Fibras Químicas 40%; Alfa-group 60%
Netherlands	Enka 100% Silenka 33-1/3%; PPG Industries 33-1/3%; others 33-1/3%
Spain	Cyanenka 25%; American Cyanamid 40%; La Seda 35% La Seda 57%; others 43%
U.K.	British Enkalon 82%, public 18%. British Enkalon also owns 40% of Wellman International Ltd., Ireland.
U.S.A.	American Enka 66%; public 34%

AMERICAN CYANAMID COMPANY (U.S.A.)

Spain	Cyanenka 40%; Akzo N.V. 25%; La Seda 35%
U.S.A.	Fibers Division 100%

AMOCO CHEMICALS CORPORATION (U.S.A.)

Australia	Amoco Fabrics Co., Patchogue Plymouth Div. 100%
Canada	Amoco Fabrics Co. 100%
Germany	Amoco Fabrics Co., Patchogue Plymouth Div. 100%
U.K.	Amoco Fabrics 100%
U.S.A.	Amoco Fabrics Co., Patchogue Plymouth Div. 100%

ASAHI CHEMICAL INDUSTRY CO. LTD. (JAPAN)

India	Baroda Rayon Corp. 1½%; local interests 94%; others 4½%
Indonesia	P.T. Indonesia Asahi Chemical 70%; others 30%
Ireland	Asahi Synthetic Fibres (Ireland) 80½%; others 19½%
Japan	Asahi Chemical 100% Asahi-Dow 50%; Dow Chemical 50% Asahi-PPG 50%; PPG Industries 50%
Korea, Rep.	Tong Yang Polyester 50%; Tong Yang Nylon 50%

BASF AMERICA CORPORATION (U.S.A.)

BASF America owns 100% of Badische Corp. (U.S.A.), which in turn owns 100% of Badische Canada Ltd.

BAYER A.G. (WEST GERMANY)

Belgium	N.V. Bayer 100%
Germany	Bayer A.G. 100%
Iran	Sherkat Sahami Aliaf 50%; Aftab Shargh & others 50%
Peru	Bayer Industrial S.A. 60%

CELANESE CORPORATION (U.S.A.)

Belgium	Amcel Europe 100%
Brazil	Celanese do Brasil 100% Celanese do Brasil Nordeste 100%
Canada	Celanese Canada Inc. 57% Millhaven Fibres: Celanese Canada 100%
Colombia	Celanese Colombiana 48%; public 52%
Mexico	Celanese Mexicana 40%; public 60%
Peru	Rayon y Celanese Peruana 33%
U.S.A.	Celanese Fibers Company 100% Fiber Industries 62½%; ICI Fibres (U.K.) 37½%
Venezuela	Celanese Venezolana 73%

FIRESTONE TIRE & RUBBER COMPANY (U.S.A.)

Canada	Firestone Textiles Ltd. 100%
U.S.A.	Firestone Fibers & Textiles 100%

HERCULES INCORPORATED (U.S.A.)

Italy	Neofil 50%; Montefibre 50%
U.S.A.	Hercules 100%

COURTAULDS, LIMITED (U.K.)

Canada	Courtaulds (Canada) Inc. 100%
France	Courtaulds S.A. 100%
Ireland	Lirelle (Ireland) Ltd. 100%
Italy	Fin Novaceta S.p.A. 50%; SNIA 50%
Spain	INACSA 12%; public 88%
U.K.	Courtaulds Acetate Ltd. 100% Courtaulds, Ltd.
U.S.A.	Courtaulds North America Inc. 100%

E. I. DU PONT DE NEMOURS & COMPANY (U.S.A.)

Argentina	Ducilo 83%; public 17%
Brazil	Du Pont do Brasil 100%
Canada	Du Pont Canada 75%; public 25%
Germany	Du Pont de Nemours (Deutschland) 100%
Japan	Toyo Products 50%; Toray Industries 50%
Luxembourg	Du Pont Fibres 100%
Mexico	Nylon de Mexico 40%; Alfa-group 60%
Netherlands	Du Pont de Nemours (Nederland) 100%
U.K.	Du Pont (U.K.) 100%
U.S.A.	Textile Fibers Department 100% Plastic Products & Resins Department 100%

HOECHST A.G. (WEST GERMANY)

Austria	Austria Faserwerke: Hoechst Austria 51%; Lenzing 49%
Brazil	Cia. Brasileira de Sinteticos 60%
Germany	Hoechst 100% Zehlendorf 80%
South Africa	Hoechst South Africa 100%
U.K.	Hoechst Fibre Industries 100%
U.S.A.	American Hoechst 100%

IMPERIAL CHEMICAL INDUSTRIES LIMITED (U.K.)

ICI owns 62% of ICI Australia Ltd., which in turn owns Fibremakers Ltd. of Australia.

Australia	Fibremakers Ltd. - 100% ICI Australia
Germany	ICI Europa Fibres G.m.b.H. 100%
India	Chemicals & Fibres of India Ltd. 55%
Pakistan	ICI Pakistan Manufacturers 70%
Portugal	Finicisa-Fibras 50%; Francisco Fino Ltd. 50%
South Africa	S.A. Nylon Spinners (through AECI Ltd.) 40%
Spain	Nurel S.A. 50%; local interests 50%
U.K.	ICI Fibres 100%
U.S.A.	Fiber Industries 37½%; Celanese Corporation 62½%

KURARAY CO., LTD. (JAPAN)

Indonesia	Kuma Fiber 40%; others 60%
Japan	Kuraray 100%
Venezuela	Kuraven 39%; others 61%

MITSUBISHI RAYON (JAPAN)

China (Taiwan)	Tong Hwa 17%; Mitsubishi Corp. 12%; others 71%
Japan	Mitsubishi Acetate 100% Mitsubishi Rayon 100%
Portugal	FISIPE 6%; Mitsubishi Corp. 11½%; Quimigal 82½%

MONSANTO COMPANY (U.S.A.)

Germany	Monsanto (Deutschland) G.m.b.H. 100%
U.K.	Monsanto Limited 100%
U.S.A.	Monsanto Polymers & Resins Company 100% Monsanto Textiles Company 100%

MONTEFIBRE S.p.A. (ITALY)

France	Montefibre France 100%
Italy	Fibra del Sud 50%; Snia Viscosa 50% Fibra de Tirso 50%; ANIC 50% Merak 100% Neofil 50%; Hercules (U.S.A.) 50% Societa Industriale Cremonese 50%
Malta	Montefibre Malta 99.9%
Spain	Montefibre Hispania 70%; others 30%

PILKINGTON BROTHERS (U.K.)

Argentina	VASA 99.7%; Glaverbel/Boussois/local interests 0.3%
India	Fibreglass Pilkington 50% plus 1 share; Indian interests 50% less 1 share
South Africa	Fibreglass South Africa 24½%; Owens-Corning Fiberglas (U.S.A.) 24½%; Plate Glass & Shatterprufe Industries Ltd. 51%
U.K.	Fibreglass Ltd. 100%

OWENS-CORNING FIBERGLAS CORPORATION (U.S.A.)

Australia	Australian Fibreglass 40%; Australian Consolidated Industries Ltd. 60%
Belgium	Owens-Corning Fiberglas Europe 100%
Brazil	OCFIBRAS 100%
Canada	Fiberglas Canada 48%; Duplate Canada 48%; local interests 4%
Colombia	Owens-Corning Fiberglas Colombia 40%; local interests 60%
France	Owens-Corning Fiberglas France 100%
Japan	Asahi Fiber Glass 28%; Asahi Glass Co., Ltd. 72%
Mexico	Vitro-Fibras 40%; Fomento de Industria y Comercio 60%
Norway	Norsk Glasfiber 70%; Elkem-Spigerverket 30%
South Africa	Fibreglass South Africa 25½%; Pilkington Brothers (U.K.) 24½%; Plate Glass & Shatterprufe Industries Ltd. 50%
Sweden	Scandinavian Glasfiber 40%; Allmanna Svenska Electriska 60%
U.S.A.	Owens-Corning Fiberglas 100%

PPG INDUSTRIES (U.S.A.)

Netherlands	Silenka 33-1/3%; Akzo N.V. 33-1/3%; others 33-1/3%
U.S.A.	Fiber Glass Division 100%

RHONE-POULENC S.A. (FRANCE)

Argentina	Rhodia Argentina Química e Têxteis 100%
Brazil	Rhodia Indústrias Químicas e Têxteis 100% Rhodia Nordeste 99%
France	Rhône-Poulenc-Textile 99.9%
Germany	Deutsche Rhodiaceta 100%
Spain	SAFA 60%
Switzerland	Viscosuisse (through Holva AG) 87%
Thailand	Thai Melon Polyester 40%; others 60%

SAINT-GOBAIN (FRANCE)

France	Saint-Gobain Industries 100%
Germany	Gevetex-Textilglas 100%
Italy	Vetreria Italiana Balzaretti Modigliani 100%
Spain	Fibras Minerales 69%; others 31%
U.S.A.	CertainTeed Corp. 54%; others 46%

SNIA VISCOSA (ITALY)

Argentina	SNIAFA (through its Luxembourg subsidiary, Sapina) 23%
Brazil	Fiacao Brasileira de Rayon 96% (through Sapina)
France	Ets. Nysam 100%
Greece	Vomvicryl 15% (through Sapina)
India	Baroda Rayon 9% (through Sapina) South India Viscosa 24% (through Sapina)
Ireland	Snia Ireland 80%
Italy	Snia Fibre S.p.A. 100% Novaceta 50%; Courtaulds (U.K.) 50%
Spain	SNIACE 25% (through Sapina)

TEIJIN LTD. (JAPAN)

China (Taiwan)	Hualon-Teijin 7%; local interests 93%
Indonesia	P.T. Tifico 65.8%; Toyo Menka 16½%; local interests 17.7%
Japan	Teijin 100%
Korea, Rep.	Sunkyong Fibres 33½%; local interests 66½%
Philippines	Filipinas Synthetic Fiber 34%; others 66%
Spain	Brilen 49%; local interests 51%
Thailand	Teijin Polyester 45%; local interests 55%

TORAY INDUSTRIES (JAPAN)

Brazil	Polynor is owned 16% by Matoray, which in turn is owned 35% by Toray and 65% by IRF Matarazzo.
China (Taiwan)	Shin Kong 6½%; Mitsubishi Corp. 4½%; local interests 89%
Indonesia	P.T. Indonesia Toray Synthetics 42%; others 58%
Japan	Toray Industries 100% Toray-Monofilament 100% Toyo Products 50%; Du Pont 50%
Korea, Rep.	Cheil Synthetic Textiles 23½%; Mitsui 6%; local interests 70½% Kolon Nylon 20%; Chemtex 3%; local interests 77% Kolon Polyester 20%; Mitsui 8%; local interests 72%
Malaysia	Penfibre 94%; Textile Alliance 6%
Philippines	Philippine Polyamide 16½%; Itoman 12½%; Toyo Menka 11%; local interests 60%
Thailand	Toray Nylon Thai 30%; Mitsui 20%; local interests 50%

TUBBS CORDAGE COMPANY (U.S.A.)

Philippines	Manila Cordage 40%
U.S.A.	Tubbs Cordage 100%

WELLMAN, INC. (U.S.A.)

Ireland	Wellman International Ltd. 60%; British Enkalon 40%
U.S.A.	Man-Made Fiber Division 100%

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEM	1981				4 MONTHS	
	JAN	FEB	MAR	APR	1981	1980
RAYON+ACETATE YARN, MONOFIL & STRIPS						
CANADA	318	125	8	1	452	168
MEXICO	161	79	163	41	444	564
WEST GERMANY	242	290	555	200	1287	507
NETHERLANDS	236	593	333	293	1455	181
SPAIN	142	0	0	0	142	0
UNITED KINGDOM	1	10	0	6	17	1068
JAPAN	64	0	0	0	64	284
ALL OTHER COUNTRIES[a]	20	54	25	40	139	249
TOTAL R+A YARN	**1184**	**1151**	**1084**	**581**	**4000**	**3021**
RAYON+ACETATE STAPLE+TOW						
CANADA	469	474	436	451	1830	390
AUSTRIA	731	113	166	303	1313	210
FRANCE	18	83	39	43	183	3
WEST GERMANY	0	0	85	0	85	79
SWEDEN	332	234	184	0	750	1248
UNITED KINGDOM	226	76	7	157	466	602
JAPAN	90	147	74	118	429	359
ALL OTHER COUNTRIES[b]	0	12	0	0	12	7
TOTAL R+A STAPLE	**1866**	**1139**	**991**	**1072**	**5068**	**2898**
NON-CELLULOSIC YARN, MONOFIL & STRIPS						
CANADA	50	98	4	579	731	397
FRANCE	94	130	203	210	637	145
WEST GERMANY	256	382	275	501	1414	1279
ITALY	52	152	35	0	239	38
UNITED KINGDOM	57	114	37	3	211	86
JAPAN	300	671	357	776	2104	4263
ALL OTHER COUNTRIES[c]	83	63	38	18	202	462
TOTAL N.C. YARN	**892**	**1610**	**949**	**2087**	**5538**	**6670**
NON-CELLULOSIC STAPLE+TOW						
CANADA	328	350	449	531	1658	1298
MEXICO	190	28	97	510	825	23
BELGIUM	0	130	0	152	282	2
FRANCE	44	797	198	506	1547	15
WEST GERMANY	541	1963	1625	2233	6362	3735
ITALY	7	813	616	423	1859	407
NETHERLANDS	0	39	44	80	163	1
POLAND	44	38	0	0	82	53
ROMANIA	0	0	132	84	216	245
UNITED KINGDOM	208	508	320	173	1209	1080
JAPAN	828	335	367	493	2023	2320
TAIWAN	324	745	588	875	2532	3889
ALL OTHER COUNTRIES[d]	0	69	0	16	85	81
TOTAL N.C. STAPLE	**2514**	**5815**	**4436**	**6076**	**18843**	**13149**

Other countries supplying 1981 poundages are:

a. Austria 21, Belgium 75, South Korea 41 & Sweden 2.

b. Italy 12.

c. Denmark 1, South Korea 47, Mexico 61, Netherlands 10, Portugal 8, Spain 61, Sweden 2 & Switzerland 12.

d. Hong Kong 1, Ireland 56, Israel 5, Portugal 10 & Switzerland 13.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1981 JAN	1981 FEB	1981 MAR	1981 APR	1981 MAY	1981 JUN	4 MONTHS 1981	4 MONTHS 1980
RAYON+ACETATE									
YARN - SINGLES									
TEXTURED	310.0106 & .0206	1	10	0	242			253	688
OTHER	310.0130 & .0230[a]	1182	1139	1084	339			3744	2333
MONOFILAMENTS	309.0310 & .0610	1	2	0	0			3	0
STRIPS, $1/LB & UNDER	309.2000*	0	0	0	0			0	0
SUBTOTAL ABOVE		**1184**	**1151**	**1084**	**581**			**4000**	**3021**
STAPLE	309.4320 & .4325	1627	1006	927	887			4447	2026
GROUPED FILAMENTS	309.3010 & .3110	239	133	64	185			621	872
SUBTOTAL ABOVE		**1866**	**1139**	**991**	**1072**			**5068**	**2898**
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	37	7	37	0			81	93
NON-CELLULOSIC FIBERS									
YARN - SINGLES									
TEXTURED - NYLON	310.0109 & .0209	197	217	215	586			1215	196
- POLYESTER	310.0110 & .0210	27	7	22	13			69	180
- OTHER	310.0114 & .0214	17	56	8	17			98	140
OTHER - NYLON	310.0149 & .0249	204	525	127	542			1398	1585
- POLYESTER	310.0150 & .0250	111	411	299	399			1220	1989
- OTHER	310.0170 & .0270[b]	170	183	113	188			654	560
MONOFILAMENTS	309.0200 & .0330[c]	145	200	149	321			815	1930
STRIPS, OVER $1/LB	309.2100 & .2500*	21	11	16	21			69	90
SUBTOTAL ABOVE		**892**	**1610**	**949**	**2087**			**5538**	**6670**
STAPLE - NYLON	309.4338	525	2686	1698	2533			7442	477
- POLYESTER	309.4342	132	111	306	661			1210	421
- ACRYLIC	309.4345	1069	1594	907	1201			4771	5105
- OLEFIN	309.4346	5	0	304	1			310	6
- OTHER	309.4355	469	961	673	1088			3191	5019
GROUPED FILAMENTS									
NYLON	309.3030 & .3130	68	50	68	137			323	222
POLYESTER	309.3040 & .3140	0	42	0	0			42	55
ACRYLIC	309.3050 & .3150	181	255	178	291			905	1544
OTHER	309.3065 & .3165	65	116	302	166			649	300
SUBTOTAL ABOVE		**2514**	**5815**	**4436**	**6078**			**18843**	**13149**
WASTE, NOT ADVANCED - NYLON	309.6625	1598	1587	2822	1713			7720	4791
- POLYESTER	309.6630	1071	1810	1547	1005			5433	1229
- ACRYLIC	309.6645	289	258	200	236			983	785
- OTHER	309.6660	32	203	263	328			826	367
NOILS & GARNETTED FIBERS	309.6000 & .7000*	0	0	0	0			0	2
OTHER WASTE, ADVANCED	309.7525 - .7555	119	63	3	35			220	210
TOTAL MAN-MADE ABOVE		**9602**	**13843**	**12332**	**13135**			**48712**	**33215**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD									
YARN - PLIED									
TEXTURED - CELLULOSIC	310.1106	0	--	24	0			24	0
- NON-CELLULOSIC	310.1015[d] & .1109[e]	268	124	213	313			918	355
OTHER - CELLULOSIC	310.1030 & .1135[f]	16	--	0	--			16	74
- NON-CELLULOSIC	310.1050 & .1070[g]	20	27	26	44			117	169
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	10	25	24	52			111	335
- OTHER	310.4015 & .4027[i]	1762	1454	1794	1740			6750	8103
OTHER YARNS - NES, INCL. CHENILLE	310.6029 - .8000	352	109	261	415			1137	767
HANDWORK YARNS & SEWING THREAD	310.9000 - .9140	247	230	188	190			855	897
SLIVER, TOPS & ROVING	309.9000	388	473	322	262			1445	804
TEXTILE GLASS FIBER	309.2800 & .2900[j]	1156	441	1047	551			3195	2899
GRAND TOTAL ABOVE		**13821**	**16526**	**16231**	**16702**			**63280**	**47618**

SOURCE: U.S.Census Bureau.

NES - Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

[a] Also includes 310.0510 & .0610.

[b] Also includes 310.0530, .0550, .0630 & .0650.

[c] Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

[d] There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

[e] Also includes 310.1110 & .1114.

[f] Also includes 310.2010 & .2110.

[g] Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

[h] Also includes 310.5005 & .5030.

[i] Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

[j] Chiefly roving. Also includes 309.9800 & .9900.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1981						YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	1981	1980
	TOTAL SHIPMENTS[b]							
MAN-MADE FIBER DATA[c]								
YARN+MONOFILAMENTS[d]								
ACETATE	**20.9**	**21.8**	**21.5**	**27.1**	**26.4**		**117.5**	**137.0**
NYLON[e] - INDUSTRIAL[f]	34.5	34.4	37.2	35.9	32.3		174.3	198.7
- LOW DENIER INDUSTRIAL[g]	3.0	3.0	3.8	2.8	2.3		14.9	16.5
- CARPET	67.1	63.8	65.3	73.4	65.3		334.9	309.4
- TEXTILE	33.7	36.6	38.4	37.3	36.1		182.1	201.1
POLYESTER - INDUSTRIAL[f]	25.5	24.3	27.3	29.0	24.7		130.8	127.3
- LOW DENIER INDUSTRIAL[g]	2.1	2.1	2.5	2.9	2.7		12.3	13.9
- TEXTILE	94.8	96.0	111.3	123.6	106.4		532.1	507.1
OLEFIN[h]	56.0	55.8	57.4	54.6	56.1		279.9	263.6
TOTAL NON-CELLULOSIC ABOVE[i]	**316.7**	**316.0**	**343.2**	**359.5**	**325.9**		**1661.3**	**1637.6**
STAPLE+TOW+FIBERFILL[j]								
RAYON	**40.9**	**35.4**	**37.9**	**41.4**	**40.8**		**196.4**	**204.2**
NYLON[e]	70.7	67.5	73.9	80.0	74.8		366.9	274.2
ACRYLIC+MODACRYLIC	59.3	62.2	63.8	65.3	61.9		312.5	344.8
POLYESTER	208.6	211.1	202.5	243.6	220.0		1085.8	1054.6
OLEFIN+VINYON	10.8	10.3	11.2	11.7	12.4		56.4	48.6
TOTAL NON-CELLULOSIC ABOVE	**349.4**	**351.1**	**351.4**	**400.6**	**369.1**		**1821.6**	**1722.2**
	END-OF-MONTH STOCK							
YARN+MONOFILAMENTS								
ACETATE	**17.0**	**15.4**	**15.8**	**13.5**	**11.6**		**11.6**	**11.3**
NYLON[e] - INDUSTRIAL[f]	37.5	37.9	35.7	36.7	42.5		42.5	42.1
- LOW DENIER INDUSTRIAL[g]	3.9	3.2	3.1	3.5	3.4		3.4	4.3
- CARPET	37.7	38.2	38.3	33.4	36.4		36.4	72.2
- TEXTILE	42.8	43.1	41.8	41.7	43.6		43.6	60.2
POLYESTER - INDUSTRIAL[f]	23.7	23.1	21.3	20.9	23.7		23.7	30.7
- LOW DENIER INDUSTRIAL[g]	3.6	3.4	3.5	3.6	3.3		3.3	2.0
- TEXTILE	100.2	104.1	87.3	67.5	72.5		72.5	107.3
OLEFIN[h]	63.9	62.3	61.6	60.4	58.3		58.3	78.0
TOTAL NON-CELLULOSIC ABOVE[i]	**313.3**	**315.3**	**292.6**	**267.7**	**283.7**		**283.7**	**396.8**
STAPLE+TOW+FIBERFILL								
RAYON	**24.2**	**25.1**	**29.3**	**26.1**	**25.4**		**25.4**	**38.6**
NYLON[e]	33.3	37.4	37.3	33.4	40.1		40.1	75.5
ACRYLIC+MODACRYLIC	76.5	76.3	74.3	68.5	66.7		66.7	52.5
POLYESTER	174.2	182.3	190.3	178.5	181.7		181.7	188.1
OLEFIN+VINYON	16.6	16.9	16.2	15.3	15.2		15.2	22.8
TOTAL NON-CELLULOSIC ABOVE	**300.6**	**312.9**	**318.1**	**295.7**	**303.7**		**303.7**	**338.9**
WOOL & COTTON CONSUMPTION								
APPAREL CLASS WOOL	11.0	12.1	14.6	13.3			51.0	46.2
CARPET CLASS WOOL	0.8	0.8	0.9	0.7			3.2	3.4
TOTAL RAW WOOL	11.8	12.9	15.5	14.0			54.2	49.6
RAW COTTON	217.4	245.4	247.1	238.1	220.6		1168.6	1371.9

a. Year totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February 1981 issue for annual data.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February 1981 issue for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 21 of the February 1981 issue for annual data.

C8850 - 1

Textile ORGANON

FEATURING MAN-MADE FIBERS

VOL. LII • NO. 7

JULY
1981

MONTHLY REVIEW

CURRENT U.S. MAN-MADE FIBER PRODUCING CAPACITY (MILLION POUNDS PER YEAR) AT 11,857 IS EXPECTED TO INCREASE 5½% TO 12,497 BY MAY 1983. THE LATTER TOTAL WILL BE COMPRISED OF 908 CELLULOSIC FIBERS, 9,962 NON-CELLULOSIC FIBERS AND 1,627 TEXTILE GLASS FIBERS.
PG 125

A REVIEW OF WORLD MAN-MADE FIBER DATA IN MILLION POUNDS IS PRESENTED. DATA ARE SHOWN ON PRODUCTION, CAPACITY, IMPORTS AND EXPORTS.
PGS 115-124

FIRST HALF 1981 NON-CELLULOSIC FIBER SHIPMENTS INCREASE 6%

Non-cellulosic fiber shipments (except saran and spandex) totaled 4,163.6 million pounds for the first six months of 1981, an increase of 6% over the 3,935.4 million pounds delivered during the corresponding 1980 period. First half shipments of olefin+vinyon staple+tow, at 68.1 million pounds, were at record levels.

Non-cellulosic yarn+monofilament shipments (except saran and spandex) for the January-June 1981 period totaled 1,987.8 million pounds, an increase of 4½% over the 1,903.7 million pounds delivered during the corresponding 1980 period. Nylon yarn shipments increased 1% to 842.4 million pounds, polyester yarn shipments increased 7½% to 811.7 million pounds and olefin yarn shipments increased 7% to 333.7 million pounds during the first half of 1981 as compared with the same 1980 period.

Non-cellulosic staple+tow+fiberfill shipments for the first six months of 1981 totaled 2,175.8 million pounds, 7% above the 2,031.7 million pounds shipped during the corresponding 1980 period. Compared with first half 1980 shipments, nylon staple+tow increased 36% to 436.1 million pounds, acrylic+modacrylic staple +tow decreased 9½%, polyester staple+tow+fiberfill increased 4½% and olefin+vinyon staple+tow increased 19% during first half 1981.

JUNE AND MAY SHIPMENTS COMPARED

Following is a comparison of total June shipments of non-cellulosic yarn+monofilaments (except saran and spandex) with May (million pounds), and the percentage change, respectively: nylon industrial 34.3 & 32.3 & +6%; low denier industrial 3.3 & 2.3 & +43%; carpet 61.3 & 65.3 & -6%; textile 37.3 & 36.1 & +3½%; polyester industrial 25.4 & 24.7 & +3%; low denier industrial 2.5 & 2.7 & -7½%; textile 108.6 & 106.4 & +2% and the total of these fibers 326.5 & 325.9 & unchanged.

For non-cellulosic staple+tow+fiberfill, the corresponding data are: nylon 69.2 & 74.8 & -7½%; acrylic+modacrylic 60.1 & 61.9 & -3%; polyester 213.2 & 220.0 & -3%; olefin+vinyon 11.7 & 12.4 & -5½% and the total 354.2 & 369.1 & -4%.

CELLULOSIC SHIPMENTS DECLINE 6% DURING FIRST HALF 1981

Deliveries of acetate yarn+monofilaments and rayon staple+tow for the first six months of 1981 totaled 376.6 million pounds, a decline of 6% from the 399.9 million pounds shipped during the first half of 1980. Shipments of acetate yarn+monofilaments declined 12% to 142.7 million pounds and rayon staple+tow deliveries declined 2% to 233.9 million pounds for the first six months of 1981.

June deliveries of acetate yarn+monofilaments declined 4½% to 25.2 million pounds from May shipments of 26.4 million pounds. For rayon staple+tow, the June-to-May decline was 8%, to 37.5 million pounds from 40.8 million pounds.

U.S. MILL CONSUMPTION DECLINED 1½% DURING JANUARY-JUNE 1981

Preliminary estimates of the Textile Economics Bureau put U.S. mill consumption at 5,630 million pounds for the first half of 1981. This is a 1½% decline from the January-June 1980 figure of 5,708 million pounds. A breakdown of these figures between man-made, cotton and wool shows that man-made and wool increased whereas cotton declined, as the following table shows.

	1st HALF 1981	1st HALF 1980	% CHANGE
Man-Made	4,150	4,025	+3%
Cotton	1,405	1,610	-13%
Wool	75	73	+2½%
TOTAL	**5,630**	**5,708**	-1½%

Thus, man-made fibers' share of U.S. mill consumption was 74% for the first half of 1981 as compared with 71% during the first half of 1980. For cotton, the comparable figures are 25% and 28% respectively, the other 1% being wool.

T.E.B. RELOCATED

Textile Economics Bureau, Inc., publisher of the ORGANON, this month moved to new quarters at 101 Eisenhower Parkway, Roseland, NJ 07068. The new telephone number is (201) 228-1107.

Concurrent with the move, there have been some changes in the T.E.B. staff.

Michael R. Kemp has been named managing editor of the ORGANON and editor of the Man-Made Fiber Review, a new monthly scheduled for publication in September.

Robert P. Antoshak, a recent addition to the staff, succeeds analyst David P. Harrison, who has gone with INDA in the capacity of manager of membership promotion.

Rosemarie D. Frick has been named head statistician and Dorothy A. Driscoll will continue as circulation manager of all T.E.B. publications.

Colin L. Robinson joined T.E.B. in June as a compositor, succeeding Lillian Medwed. Mrs. Medwed retired at the end of June after more than 30 years' service with the Bureau.

CONTENTS

Monthly Review 113
  U.S. Mill Consumption 114
  TEB Relocated 114
World Fiber Data (Million Pounds)
  Production of Textile Fibers 115
  Non-Cellulosic Fiber Data 115-118, 122
  Cellulosic Fiber Data 119-121
  Import, Export & Available 123
  Olefin Fiber Data 124
  Textile Glass Fiber Data 118
U.S. Man-Made Fiber Capacity 125
  Imports by Country of Origin 126
  Imports for Consumption 127
U.S. Monthly Fiber Data 128

Textile ORGANON

CHARLES A. WHITEHEAD, *EDITOR & PUBLISHER*
MICHAEL R. KEMP, *MANAGING EDITOR*
DOROTHY A. DRISCOLL, *CIRCULATION MGR.*
PUBLISHED BY
TEXTILE ECONOMICS BUREAU, INC.
101 EISENHOWER PARKWAY, ROSELAND, NJ 07068

An arrangement of authentic market data, especially important to the United States Man-Made Fiber industry, published monthly in the interest of good business.

Copyright 1981 by Textile Economics Bureau, Inc. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription rates as of July 1981 (payable in U.S. dollars or equivalent, with order):

	U.S.A.	OTHER
Annually (1 yr. only)	$125.00	$187.50
Schools & Non-Profit	25.00	25.00
Single Issues:		
June	12.50	18.75
November	12.50	18.75
All Others	10.00	15.00

All issues will be sent to U.S. subscribers by first class mail and those to all other countries by airmail.

WORLD DATA IN MILLION POUNDS

The tables on pages 115-124 of this issue show data in million pounds for the tables on pages 81, 83-88, 91 and 92 of the June 1981 ORGANON issue.

Certain corrections for Greece, Hungary and Spain (see below) have been carried through in these tables.

JUNE ORGANON CORRECTIONS

Greece. On page 87, 1980 rayon yarn production should read 7.2 and the 1982 rayon yarn capacity should be 8.5

Hungary. On page 84, 1980 non-cellulosic yarn and staple should read 3.7 and 13.8, respectively.

Spain. On page 84, 1980 non-cellulosic yarn and staple and 1981 and 1982 capacities should be 64.9 & 142.5, 105.3 & 205.8 and 106.3 & 207.0, respectively.

TEXTILE, CARPET & INDUSTRIAL YARN

Viable information allows us to present the following breakdown of West European production of nylon and polyester yarn for 1978, 1979 and 1980 (million pounds):

	NYLON			POLYESTER		
	1978	1979	1980	1978	1979	1980
Textile	694	721	649	737	752	629
Carpet	333	313	290	--	--	--
Industrial	220	225	202	130	145	142
TOTAL	**1247**	**1259**	**1141**	**867**	**897**	**771**

Comparative U.S. data for the three years are as follows (million pounds):

	NYLON			POLYESTER		
	1978	1979	1980	1978	1979	1980
Textile	503	527	466	1209	1343	1176
Carpet	713	755	728	--	--	--
Industrial	438	499	437	355	373	286
TOTAL	**1654**	**1781**	**1631**	**1564**	**1716**	**1462**

IMPORTS, EXPORTS & BALANCE

The by-country production, import, export and net available or retained supply of four categories of man-made fiber are tabulated on page 123 covering calendar 1980.

In the page 123 table , "yarn" includes tire cord and tire cord fabric, filament yarn and monofilaments.

(Continued on page 124)

WORLD PRODUCTION OF CERTAIN TEXTILE FIBERS

MILLION POUNDS & *Percent*

TYPE OF FIBER	1974	1675	1976	1977	1978	1979	1980
RAYON+ACETATE FIBERS (from page 120)							
YARN+MONOFILAMENTS	2,871	2,503	2,619	2,584	2,572	2,593	2,555
STAPLE+TOW	4,916	4,020	4,457	4,649	4,742	4,837	4,596
TOTAL RAYON+ACETATE	**7,787**	**6,523**	**7,076**	**7,233**	**7,314**	**7,430**	**7,151**
NON-CELLULOSIC FIBERS except Olefin (from page 118)							
YARN+MONOFILAMENTS	8,344	8,296	9,101	9,508	10,148	10,799	10,430
STAPLE+TOW	8,161	7,914	9,862	10,663	11,973	12,588	12,688
TOTAL NON-CELL. ABOVE	**16,505**	**16,210**	**18,963**	**20,171**	**22,121**	**23,387**	**23,118**
TOTAL MAN-MADE ABOVE	**24,292**	**22,733**	**26,039**	**27,404**	**29,435**	**30,817**	**30,269**
% of World Total	*41*	*44*	*46*	*45*	*48*	*47*	*47*
NATURAL FIBERS							
RAW COTTON	30,966	25,919	27,513	30,690	28,600	31,460	31,166
RAW WOOL	3,375	3,391	3,278	3,280	3,369	3,468	3,485
RAW SILK	99	104	106	108	112	121	123
TOTAL NATURAL ABOVE	**34,440**	**29,414**	**30,897**	**34,078**	**32,081**	**35,049**	**34,774**
% of World Total	*59*	*56*	*54*	*55*	*52*	*53*	*53*
WORLD TOTAL ABOVE	**58,732**	**52,147**	**56,936**	**61,482**	**61,516**	**65,866**	**65,043**
World Total %	*100*	*100*	*100*	*100*	*100*	*100*	*100*

The silk and man-made fiber data are on a calendar-year basis, while the figures for cotton and wool are on a seasonal basis.

MAN-MADE FIBERS: Data are from pages 118 and 120, as noted. Textile glass fiber and olefin production on pages 118 and 124 respectively are not included.

COTTON: International Cotton Advisory Committee. Also see October 1980 ORGANON.

WOOL: Commonwealth Secretariat. The data are on a scoured basis. Also see the December 1980 ORGANON issue.

SILK: International Silk Association; Food and Agriculture Organization of the United Nations.

3

WORLD NON-CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY (EXCEPT OLEFIN)

MILLION POUNDS

	WEST EUROPE																
	AUS-TRIA	BENELUX[a]			EIRE (IRELAND)			FIN-LAND	FRANCE			WEST GERMANY			GREECE		
YEAR	S	Y	S	TOT	Y	S	TOT	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	41.0	199.7	142.6	342.3	12.8	12.1	24.9	2.6	217.8	306.2	524.0	830.9	855.4	1686.3	10.4	0	10.4
1975	36.8	169.1	101.9	271.0	13.2	13.2	26.4	2.4	188.5	262.3	450.8	709.2	669.3	1378.5	11.9	0	11.9
1976	60.4	186.3	136.2	322.5	13.9	19.8	33.7	1.8	231.7	316.8	548.5	813.5	860.7	1674.2	18.3	11.0	29.3
1977	57.1	187.6	119.5	307.1	5.3	27.6	32.9	0.9	221.1	316.6	537.7	716.5	805.1	1521.6	17.0	16.5	33.5
1978	67.0	208.8	105.8	314.6	18.3	57.3	75.6	1.1	202.2	341.1	543.3	718.7	889.3	1608.0	18.7	17.4	36.1
1979	64.6	209.9	89.1	299.0	23.8	70.5	94.3	0.9	173.5	320.3	493.8	745.2	929.2	1674.4	20.3	20.9	41.2
1980	56.0	158.5	71.4	229.9	24.2	70.5	94.7	0.9	144.0	279.3	423.3	700.4	887.1	1587.5	19.8	22.0	41.8
PRODUCING CAPACITY																	
1981	*46.3*	*227.1*	*134.5*	*361.6*	*37.5*	*86.0*	*123.5*	*1.3*	*249.1*	*352.7*	*601.8*	*866.4*	*1128.8*	*1995.2*	*30.2*	*26.5*	*56.7*
1982	*46.3*	*179.7*	*77.2*	*256.9*	*37.5*	*86.0*	*123.5*	*1.3*	*249.1*	*354.9*	*604.0*	*842.2*	*1104.5*	*1946.7*	*30.2*	*26.5*	*56.7*

	WEST EUROPE *(Continued)*															
	ITALY/MALTA			PORTUGAL			SPAIN			SWE-DEN	SWITZERLAND			TURKEY		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	Y	S	TOT	Y	S	TOT
1974	292.3	361.8	654.1	3.3	18.7	22.0	109.6	172.8	282.4	2.4	102.7	54.9	157.6	35.3	62.2	97.5
1975	253.5	356.9	610.4	3.1	12.6	15.7	100.3	162.5	262.8	2.0	98.8	45.6	144.4	41.7	62.4	104.1
1976	288.1	542.1	830.2	3.7	22.3	26.0	119.3	208.1	327.4	2.2	108.9	60.2	169.1	40.8	97.4	138.2
1977	261.0	466.7	727.7	3.3	36.6	39.9	121.5	230.6	352.1	0.2	108.0	63.3	171.3	33.1	144.4	177.5
1978	259.9	521.4	781.3	3.5	57.5	61.0	134.0	284.6	418.6	0.2	109.8	73.6	183.4	48.7	133.6	182.3
1979	279.1	515.0	794.1	3.7	64.4	68.1	158.1	311.7	469.8	0.2	108.2	66.1	174.3	66.1	169.8	235.9
1980	275.4	506.8	782.2	3.3	65.3	68.6	143.0	314.2	457.2	0.2	112.9	52.2	165.1	61.7	154.3	216.0
PRODUCING CAPACITY																
1981	*439.8*	*989.9*	*1429.7*	*4.4*	*90.4*	*94.8*	*232.1*	*453.7*	*685.8*	*0.4*	*170.9*	*75.0*	*245.9*	*145.5*	*318.6*	*464.1*
1982	*465.2*	*989.9*	*1455.1*	*4.4*	*90.4*	*94.8*	*234.3*	*456.4*	*690.7*	*0.4*	*170.9*	*75.0*	*245.9*	*145.5*	*318.6*	*464.1*

	W. EUROPE *(Cont.)*			EAST EUROPE											
	UNITED KINGDOM			BULGARIA			CZECHOSLOVAKIA			GERMAN DEM. REP.			HUNGARY		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	441.6	431.7	873.3	22.0	67.9	89.9	79.1	38.1	117.2	112.4	116.8	229.2	7.7	16.5	24.2
1975	405.6	390.4	796.0	23.6	68.3	91.9	97.7	41.7	139.4	108.0	138.4	246.4	6.2	17.6	23.8
1976	441.1	472.0	913.1	28.7	63.7	92.4	108.0	43.2	151.2	112.4	146.8	259.2	7.1	17.6	24.7
1977	389.6	401.5	791.1	27.6	69.4	97.0	101.4	50.7	152.1	116.8	156.5	273.3	7.1	28.9	36.0
1978	398.8	497.1	895.9	28.7	72.8	101.5	108.0	55.1	163.1	117.9	163.1	281.0	7.3	34.0	41.3
1979	377.9	462.3	840.2	28.7	77.2	105.9	110.2	48.5	158.7	120.4	171.7	292.1	7.1	32.6	39.7
1980	277.6	356.5	634.1	28.2	81.6	109.8	119.0	49.4	168.4	125.7	180.8	306.5	8.2	30.4	38.6
PRODUCING CAPACITY															
1981	*372.6*	*553.4*	*926.0*	*29.8*	*101.4*	*131.2*	*130.1*	*116.8*	*246.9*	*134.5*	*227.1*	*361.6*	*13.2*	*38.6*	*51.8*
1982	*271.2*	*553.4*	*824.6*	*29.8*	*136.7*	*166.5*	*130.1*	*116.8*	*246.9*	*160.9*	*227.1*	*388.0*	*13.2*	*38.6*	*51.8*

	EAST EUROPE *(Continued)*														
	POLAND			ROMANIA			U.S.S.R.			YUGOSLAVIA			TOTAL EUROPE		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	85.3	123.2	208.5	30.9	140.4	171.3	421.1	281.1	702.2	8.6	30.2	38.8	**3028.5**	**3273.6**	**6302.1**
1975	117.7	143.3	261.0	37.5	149.0	186.5	504.9	293.2	798.1	11.9	31.7	43.6	**2906.8**	**2997.1**	**5903.9**
1976	153.7	151.0	304.7	61.7	189.6	251.3	573.2	308.6	881.8	20.5	34.2	54.7	**3334.9**	**3761.7**	**7096.6**
1977	179.0	144.4	323.4	63.9	209.4	273.3	584.2	421.1	1005.3	16.1	44.8	60.9	**3161.2**	**3810.7**	**6971.9**
1978	187.8	147.5	335.3	66.1	220.5	286.6	606.3	440.9	1047.2	37.5	61.7	99.2	**3282.3**	**4241.3**	**7523.6**
1979	192.7	145.3	338.0	77.2	231.5	308.7	601.9	447.5	1049.4	46.3	77.2	123.5	**3351.4**	**4315.4**	**7666.8**
1980	196.9	150.8	347.7	72.8	227.1	299.9	703.3	509.3	1212.6	50.7	88.2	138.9	**3226.7**	**4153.2**	**7379.9**
PRODUCING CAPACITY															
1981	*220.5*	*183.0*	*403.5*	*88.2*	*262.3*	*350.5*	*815.7*	*604.1*	*1419.8*	*61.7*	*147.7*	*209.4*	*4271.0*	*5936.8*	*10207.8*
1982	*269.0*	*183.0*	*452.0*	*88.2*	*317.5*	*405.7*	*978.8*	*912.7*	*1891.5*	*94.8*	*152.1*	*246.9*	*4396.7*	*6263.6*	*10660.3*

Y means yarn+monofilaments. **S** means staple+tow+fiberfill. **TOT** means total.

The producing capacity, in operable condition, is shown on an annual basis as of March 1981 (1981) and December 1982 (1982).

These totals do not contain data for the fibers produced in North Korea.

a. Benelux includes Belgium, Netherlands and Luxembourg.

WORLD NON-CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY (EXCEPT OLEFIN) *(Continued)*

MILLION POUNDS

				OTHER AMERICAS												
	U.S.A.			ARGENTINA			BRAZIL			CANADA			CHILE			COSTA RICA
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y
1974	**2979.9**	**2717.8**	**5697.7**	58.6	43.9	102.5	151.5	103.6	255.1	144.2	58.6	202.8	11.2	8.6	19.8	0
1975	**2766.0**	**2624.8**	**5390.8**	58.0	43.7	101.7	176.6	100.3	276.9	141.8	69.4	211.2	7.5	4.2	11.7	0
1976	**2790.7**	**3262.6**	**6053.3**	51.1	37.0	88.1	213.0	133.8	346.8	140.7	72.3	213.0	8.8	6.6	15.4	+
1977	**3120.0**	**3575.8**	**6695.8**	53.8	34.8	88.6	210.8	141.5	352.3	152.8	95.9	248.7	8.8	4.9	13.7	+
1978	**3233.7**	**3860.6**	**7094.3**	48.9	37.5	86.4	233.0	164.2	397.2	159.2	112.2	271.4	9.7	3.3	13.0	4.4
1979	**3515.2**	**4165.2**	**7680.4**	65.3	49.8	115.1	270.1	201.5	471.6	161.2	106.9	268.1	11.0	5.3	16.3	4.4
1980	**3112.1**	**4035.5**	**7147.6**	48.5	35.3	83.8	300.7	209.4	510.1	163.1	105.8	268.9	11.0	5.5	16.5	6.6
PRODUCING CAPACITY																
1981	*3809.0*	*4523.0*	*8332.0*	*99.2*	*63.9*	*163.1*	*315.7*	*239.6*	*555.3*	*249.3*	*118.6*	*367.9*	*22.0*	*9.3*	*31.3*	*15.9*
1982	*3846.0*	*4724.0*	*8570.0*	*99.2*	*81.6*	*180.8*	*357.4*	*252.2*	*609.6*	*262.3*	*121.7*	*384.0*	*22.0*	*9.3*	*31.3*	*15.9*

	OTHER AMERICAS *(Continued)*																
	COLOMBIA			ECUA-DOR	GUA-TEMALA	MEXICO			PERU			URUGUAY			VENEZUELA		
YEAR	Y	S	TOT	Y	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	36.2	15.4	51.6	0	0	187.0	91.9	278.9	11.2	26.2	37.4	3.1	0	3.1	18.5	11.5	30.0
1975	45.2	15.0	60.2	0.7	0	237.4	104.3	341.7	12.3	30.0	42.3	2.2	0	2.2	22.7	11.2	33.9
1976	61.1	13.7	74.8	4.0	0	231.3	127.2	358.5	8.4	43.7	52.1	2.4	0	2.4	25.4	11.7	37.1
1977	72.1	13.4	85.5	5.1	0	265.4	144.6	410.0	12.3	42.3	54.6	2.4	+	2.4	25.8	12.6	38.4
1978	73.2	17.2	90.4	5.5	0	272.0	167.3	439.3	12.3	45.2	57.5	2.4	+	2.4	25.4	12.1	37.5
1979	63.3	17.6	80.9	7.5	+	300.0	205.0	505.0	15.4	46.3	61.7	2.4	5.3	7.7	25.8	13.4	39.2
1980	50.7	24.0	74.7	7.7	+	302.0	225.6	527.6	15.4	47.4	62.8	2.2	5.5	7.7	25.4	13.2	38.6
PRODUCING CAPACITY																	
1981	*81.1*	*28.7*	*109.8*	*10.6*	*4.4*	*407.9*	*360.5*	*768.4*	*31.3*	*59.5*	*90.8*	*5.5*	*7.1*	*12.6*	*34.0*	*15.2*	*49.2*
1982	*88.6*	*30.9*	*119.5*	*10.6*	*4.4*	*440.9*	*415.6*	*856.5*	*31.3*	*75.0*	*106.3*	*5.5*	*7.1*	*12.6*	*34.0*	*15.2*	*49.2*

							OTHER AFRICA, ASIA & OCEANIA									
	TOTAL OTHER AMERICAS			JAPAN			AUSTRALIA/N.Z.			BAN-GLADESH	PEOPLE'S REPUBLIC OF CHINA			REPUBLIC OF CHINA (TAIWAN)		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	Y	S	TOT	Y	S	TOT
1974	**621.5**	**359.7**	**981.2**	**1113.3**	**1368.0**	**2481.3**	46.3	3.7	50.0	0.7	24.9	62.6	87.5	191.4	123.5	314.9
1975	**704.4**	**378.1**	**1082.5**	**1058.2**	**1192.5**	**2250.7**	43.0	2.6	45.6	0.9	28.9	71.9	100.8	327.8	189.4	517.2
1976	**746.2**	**446.0**	**1192.2**	**1220.7**	**1433.9**	**2654.6**	44.1	2.2	46.3	0.9	33.1	81.6	114.7	354.3	246.3	600.6
1977	**809.3**	**490.0**	**1299.3**	**1301.2**	**1521.6**	**2822.8**	38.6	2.6	41.2	0.7	39.7	92.6	132.3	386.7	416.7	803.4
1978	**846.0**	**559.0**	**1405.0**	**1386.7**	**1646.8**	**3033.5**	39.9	2.4	42.3	1.1	66.1	235.0	301.1	492.7	530.6	1023.3
1979	**926.4**	**651.1**	**1577.5**	**1391.5**	**1613.5**	**3005.0**	36.2	1.1	37.3	0.4	99.2	282.2	381.4	566.1	583.1	1149.2
1980	**933.3**	**671.7**	**1605.0**	**1379.4**	**1611.8**	**2991.2**	28.7	+	28.7	0.7	145.5	449.7	595.2	583.6	646.4	1230.0
PRODUCING CAPACITY																
1981	*1276.9*	*902.4*	*2179.3*	*1593.9*	*1913.6*	*3507.5*	*58.4*	*0*	*58.4*	*2.0*	*242.5*	*617.3*	*859.8*	*760.6*	*716.5*	*1477.1*
1982	*1372.1*	*1008.6*	*2380.7*	*1593.9*	*1913.6*	*3507.5*	*58.4*	*0*	*58.4*	*2.0*	*352.7*	*727.5*	*1080.2*	*760.6*	*716.5*	*1477.1*

	OTHER AFRICA, ASIA & OCEANIA *(Continued)*														
	EGYPT			INDIA			INDONESIA			IRAN			ISRAEL		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	0.7	0.9	1.6	33.5	17.4	50.9	4.9	4.2	9.1	12.3	0	12.3	2.0	12.1	14.1
1975	0.7	1.1	1.8	44.3	29.3	73.6	7.9	9.3	17.2	15.0	0	15.0	8.8	12.3	21.1
1976	1.3	1.3	2.6	53.4	43.4	96.8	24.3	55.1	79.4	19.2	0	19.2	12.6	13.7	26.3
1977	1.8	0.9	2.7	56.4	47.6	104.0	38.1	82.0	120.1	18.7	0	18.7	12.8	12.3	25.1
1978	1.8	0.9	2.7	72.3	56.7	129.0	47.0	100.1	147.1	19.8	+	19.8	19.6	13.7	33.3
1979	3.3	0.9	4.2	78.9	61.3	140.2	50.0	110.9	160.9	11.0	0	11.0	21.8	14.1	35.9
1980	4.0	11.0	15.0	87.5	67.9	155.4	91.5	118.8	210.3	9.9	0	9.9	23.1	14.6	37.7
PRODUCING CAPACITY															
1981	*5.1*	*55.1*	*60.2*	*104.9*	*111.8*	*216.7*	*176.4*	*129.2*	*305.6*	*53.4*	*83.1*	*136.5*	*28.7*	*17.6*	*46.3*
1982	*19.8*	*55.1*	*74.9*	*104.9*	*155.9*	*260.8*	*176.4*	*129.2*	*305.6*	*53.4*	*83.1*	*136.5*	*28.7*	*17.6*	*46.3*

5

WORLD NON-CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY (EXCEPT OLEFIN) *(Continued)*

MILLION POUNDS

	OTHER AFRICA, ASIA & OCEANIA *(Continued)*																
	KENYA			REPUBLIC OF KOREA			MALAY-SIA	NIGERIA			PAKISTAN			PHILIPPINES			SING-APORE
YEAR	Y	S	TOT	Y	S	TOT	S	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y
1974	0	0	0	182.1	152.3	334.4	7.1	0	0	0	4.2	0	4.2	15.2	17.0	32.2	3.3
1975	0	0	0	264.6	314.6	579.2	22.0	0	0	0	4.0	0	4.0	24.3	17.2	41.5	+
1976	0	0	0	311.5	370.4	681.9	33.1	0	0	0	5.3	0	5.3	30.9	17.2	48.1	0
1977	0	0	0	358.2	413.1	771.3	66.1	0	+	+	4.9	0	4.9	32.8	17.2	50.0	0
1978	0	0	0	458.6	494.9	953.5	72.8	+	6.6	6.6	4.2	0	4.2	35.3	19.0	54.3	0
1979	+	0	+	522.9	529.3	1052.2	77.2	6.6	8.8	15.4	4.4	0	4.4	55.1	25.6	80.7	0
1980	2.2	+	2.2	562.6	619.9	1182.5	79.4	7.7	8.8	16.5	3.3	0	3.3	66.1	30.9	97.0	0
PRODUCING CAPACITY																	
1981	*3.3*	*11.9*	*15.2*	*621.7*	*741.4*	*1363.1*	*83.3*	*12.3*	*11.0*	*23.3*	*5.1*	*0*	*5.1*	*88.2*	*39.7*	*127.9*	*0*
1982	*12.1*	*11.9*	*24.0*	*762.8*	*789.9*	*1552.7*	*83.3*	*12.3*	*11.0*	*23.3*	*11.7*	*52.9*	*64.6*	*88.2*	*39.7*	*127.9*	*0*

	OTHER AFRICA, ASIA & OCEANIA *(Continued)*										WORLD TOTAL EXCEPT OLEFIN		
	SOUTH AFRICA			SRI LANKA	THAILAND			TOTAL OTHER A, A & O					
YEAR	Y	S	TOT	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	46.3	11.0	57.3	0	33.5	29.8	63.3	601.3	441.6	1042.9	8344.5	8160.7	16505.2
1975	45.0	10.6	55.6	0	45.6	40.6	86.2	860.8	720.9	1581.7	8296.2	7913.4	16209.6
1976	60.4	28.7	89.1	0	56.9	64.8	121.7	1008.2	957.8	1966.0	9100.7	9862.0	18962.7
1977	56.7	29.8	86.5	0	69.9	84.0	153.9	1116.0	1264.9	2380.9	9507.7	10663.0	20170.7
1978	64.8	36.4	101.2	0	76.5	96.1	172.6	1399.7	1665.2	3064.9	10148.4	11972.9	22121.3
1979	71.0	43.0	114.0	0	87.5	105.6	193.1	1614.4	1843.1	3457.5	10798.9	12588.3	23387.2
1980	73.9	44.1	118.0	0	88.2	124.6	212.8	1778.5	2216.1	3994.6	10430.0	12688.3	23118.3
PRODUCING CAPACITY													
1981	*94.8*	*48.5*	*143.3*	*6.0*	*107.1*	*127.9*	*235.0*	*2370.5*	*2794.3*	*5164.8*	*13321.3*	*16070.1*	*29391.4*
1982	*94.8*	*48.5*	*143.3*	*6.0*	*107.1*	*127.9*	*235.0*	*2651.9*	*3050.0*	*5701.9*	*13860.6*	*16959.8*	*30820.4*

WORLD TEXTILE GLASS FIBER PRODUCTION & PRODUCING CAPACITY

MILLION POUNDS

	PRODUCTION							CAPACITY	
COUNTRY	1974	1975	1976	1977	1978	1979	1980	*1981*	*1982*
WEST EUROPE EAST EUROPE[a]	487	386	494	644	670	683	661	*723* *95*	*727* *110*
U.S.A.	683	547	677	787	924	1014	867	*1440*	*1621*
OTHER AMERICAS	55	46	57	57	59	62	66	*82*	*88*
JAPAN	262	143	231	280	322	392	368	*425*	*503*
OTHER A,A & O[b]	22	13	27	29	27	27	29	*55*	*59*
TOTAL ABOVE	**1509**	**1135**	**1488**	**1797**	**2002**	**2178**	**1991**	***2820***	***3108***
CHINA U.S.S.R.	DATA ARE NOT AVAILABLE							*77* *220*	*110* *220*

Textile glass fiber is defined on page 93 of the June ORGANON. The textile glass fiber producing capacity, in operable condition, is shown on an annual rate basis as of March 1981 (1981) and December 1982 (1982).

a. The data for East Europe do not include estimates for the U.S.S.R.

b. The Other Africa, Asia & Oceania countries are Australia, India and South Africa.

WORLD ACETATE STAPLE PRODUCTION & CAPACITY

MILLION POUNDS

	PRODUCTION							CAPACITY	
COUNTRY	1974	1975	1976	1977	1978	1979	1980	*1981*	*1982*
U.K.	4.2	2.6	1.8	1.5	1.1	1.1	0.7	*1.1*	*1.1*
U.S.A.	20.0	12.0	11.0	8.0	7.0	7.0	7.0	*7.9*	*7.9*
CANADA	6.6	3.5	2.6	3.7	1.3	0	0	*0*	*0*
MEXICO	0.2	0	0	0	0	0	0	*0*	*0*
INDIA	0.4	0.7	0.9	0.4	0.9	0.9	0.2	*1.8*	*1.8*
WORLD TOTAL	**31.4**	**18.8**	**16.3**	**13.6**	**10.3**	**9.0**	**7.9**	***10.8***	***10.8***

ESTIMATED WORLD CIGARETTE TOW PRODUCTION

MILLION POUNDS

AREA	1974	1975	1976	1977	1978	1979	1980
EUROPE[a]	106	108	130	148	168	163	163
U.S.A.	273	287	302	322	331	366	408
OTHER AMER.[b]	55	57	60	60	66	73	77
ASIA[c]	66	79	82	86	88	90	90
WORLD TOTAL	**500**	**531**	**574**	**616**	**653**	**692**	**738**

a. Belgium, West Germany, U.S.S.R. & United Kingdom.

b. Brazil, Canada, Colombia, Mexico & Venezuela.

c. Japan and South Korea.

6

WORLD RAYON+ACETATE PRODUCTION & PRODUCING CAPACITY BY COUNTRY

MILLION POUNDS

	WEST EUROPE															
	AUSTRIA			BELGIUM/ NETHERLANDS			FINLAND			FRANCE			WEST GERMANY			GREECE
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y
1974	32.8	195.3	228.1	105.6	52.7	158.3	2.2	80.2	82.4	92.8	184.5	277.3	153.0	176.4	329.4	11.9
1975	22.5	163.1	185.6	77.8	23.6	101.4	1.5	64.8	66.3	61.9	121.9	183.8	107.6	94.8	202.4	13.0
1976	33.1	196.0	229.1	86.0	47.2	133.2	2.0	68.8	70.8	53.8	132.9	186.7	146.2	112.4	258.6	14.8
1977	27.8	198.8	226.6	79.8	50.7	130.5	2.6	87.7	90.3	45.9	133.8	179.7	140.4	101.4	241.8	15.9
1978	24.9	211.6	236.5	79.4	52.0	131.4	2.6	94.4	97.0	42.5	121.7	164.2	131.6	108.0	239.6	15.9
1979	26.4	217.8	244.2	79.6	59.3	138.9	2.6	105.8	108.4	40.8	129.8	170.6	128.1	110.2	238.3	15.9
1980	33.7	221.8	255.5	74.5	48.5	123.0	1.3	104.1	105.4	36.2	109.3	145.5	143.7	101.4	245.1	15.9
PRODUCING CAPACITY																
1981	35.3	233.7	269.0	96.1	66.1	162.2	0	116.8	116.8	44.1	143.3	187.4	152.1	121.3	273.4	16.5
1982	35.3	233.7	269.0	96.1	66.1	162.2	0	116.8	116.8	17.6	143.3	160.9	152.1	121.3	273.4	18.7

	WEST EUROPE *(Continued)*																
	ITALY			NORWAY	PORTUGAL			SPAIN			SWEDEN			SWITZERLAND	TURKEY		
YEAR	Y	S	TOT	S	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	Y	S	TOT
1974	119.5	188.3	307.8	63.7	6.4	3.1	9.5	48.5	101.4	149.9	5.5	71.9	77.4	9.0	0.9	12.1	13.0
1975	91.0	102.1	193.1	40.6	5.3	2.4	7.7	36.2	78.9	115.1	2.4	40.8	43.2	8.2	0.7	8.1	8.8
1976	103.0	131.8	234.8	57.5	5.5	3.1	8.6	34.4	90.4	124.8	0	67.0	67.0	9.7	0.7	8.6	9.3
1977	97.9	137.3	235.2	54.2	5.7	3.1	8.8	33.1	95.0	128.1	0	73.0	73.0	10.4	0.7	8.8	9.5
1978	86.6	103.4	190.0	62.6	4.6	2.6	7.2	30.4	102.7	133.1	0	81.3	81.3	9.0	0.7	8.8	9.5
1979	84.6	86.0	170.6	64.6	5.5	3.7	9.2	27.8	98.5	126.3	0	81.3	81.3	7.3	0.7	13.2	13.9
1980	80.7	60.6	141.3	62.6	6.0	1.8	7.8	28.2	88.4	116.6	0	80.5	80.5	4.0	0.7	11.0	11.7
PRODUCING CAPACITY																	
1981	104.1	77.2	181.3	70.5	8.8	4.4	13.2	39.2	123.0	162.2	0	88.2	88.2	11.0	1.1	17.6	18.7
1982	104.1	77.2	181.3	70.5	8.8	4.4	13.2	39.2	123.0	162.2	0	88.2	88.2	11.0	1.1	17.6	18.7

	WEST EUROPE *(Continued)*						EAST EUROPE									
	UNITED KINGDOM			TOTAL WEST EUROPE			BULGARIA			CZECHOSLOVAKIA			GERMAN DEM. REP.			HUNGARY
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	S
1974	154.5	324.3	478.8	**742.6**	**1453.9**	**2196.5**	4.4	35.3	39.7	44.8	111.3	156.1	75.0	291.0	366.0	20.3
1975	137.8	279.3	417.1	**565.9**	**1020.4**	**1586.3**	5.5	41.9	47.4	47.2	109.3	156.5	72.5	298.9	371.4	19.4
1976	155.6	261.5	417.1	**644.8**	**1177.2**	**1822.0**	6.6	52.0	58.6	48.3	110.9	159.2	79.8	301.6	381.4	19.8
1977	138.0	250.4	388.4	**598.2**	**1194.2**	**1792.4**	6.6	56.7	63.3	48.5	111.5	160.0	79.4	288.8	368.2	20.1
1978	131.6	274.3	405.9	**559.8**	**1223.4**	**1783.2**	7.0	61.3	68.3	47.4	109.1	156.5	75.0	284.8	359.8	19.8
1979	130.5	306.9	437.4	**549.8**	**1277.1**	**1826.9**	7.0	66.2	73.2	48.5	79.4	127.9	77.2	286.6	363.8	19.0
1980	80.9	241.0	321.9	**505.8**	**1131.0**	**1636.8**	7.3	72.8	80.1	43.7	76.9	120.6	80.5	291.0	371.5	18.5
PRODUCING CAPACITY																
1981	81.6	276.7	358.3	589.9	1338.8	1928.7	11.0	92.6	103.6	55.1	125.7	180.8	84.9	319.7	404.6	22.0
1982	81.6	245.8	327.4	565.6	1307.9	1873.5	11.0	92.6	103.6	55.1	125.7	180.8	84.9	319.7	404.6	22.0

	EAST EUROPE *(Continued)*														
	POLAND			ROMANIA			U.S.S.R.			YUGOSLAVIA			TOTAL EAST EUROPE		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	67.2	146.8	214.0	31.3	107.8	139.1	588.6	664.9	1253.5	34.4	121.2	155.6	**845.7**	**1498.6**	**2344.3**
1975	62.4	148.6	211.0	30.9	107.8	138.7	620.4	681.2	1301.6	30.9	110.0	140.9	**869.8**	**1517.1**	**2386.9**
1976	63.3	147.5	210.8	24.3	118.8	143.1	630.7	718.3	1349.0	33.3	110.2	143.5	**886.3**	**1579.1**	**2465.4**
1977	63.1	147.9	211.0	19.8	111.1	130.9	650.4	736.3	1386.7	32.8	123.5	156.3	**900.6**	**1595.9**	**2496.5**
1978	61.7	144.2	205.9	20.9	116.8	137.7	661.4	738.5	1399.9	33.1	125.7	158.8	**906.5**	**1600.2**	**2506.7**
1979	59.9	124.8	184.7	21.4	121.2	142.6	657.0	742.9	1399.9	34.1	127.9	162.0	**905.1**	**1568.0**	**2473.1**
1980	55.8	134.3	190.1	20.9	119.0	139.9	672.4	760.6	1433.0	33.1	127.9	161.0	**913.7**	**1601.0**	**2514.7**
PRODUCING CAPACITY															
1981	69.4	157.6	227.0	22.0	121.3	143.3	749.6	793.7	1543.3	37.5	132.3	169.8	1029.5	1764.9	2794.4
1982	69.4	157.6	227.0	22.0	374.8	396.8	749.6	793.7	1543.3	37.5	132.3	169.8	1029.5	2018.4	3047.9

Y means yarn+monofilaments. **S** means staple+tow. **TOT** means total.

The producing capacity, in operable condition, is shown on an annual basis as of March 1981 (1981) and December 1982 (1982).

These totals do not include data for the Indonesian pilot plant nor production of cellulosic fibers in North Korea.

Production and producing capacity by country, divided between rayon and acetate yarn, is given on page 121. Also note page 118 for data on production of acetate staple and cigarette tow.

WORLD RAYON+ACETATE PRODUCTION & PRODUCING CAPACITY BY COUNTRY *(Continued)*

MILLION POUNDS

				OTHER AMERICAS											
	U.S.A.			ARGENTINA			BRAZIL			CANADA			CHILE		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	533.4	665.4	1198.8	19.0	20.7	39.7	79.1	39.2	118.3	32.2	57.5	89.7	2.4	5.5	7.9
1975	366.1	382.9	749.0	16.1	15.9	32.0	67.7	40.8	108.5	28.9	32.2	61.1	1.5	4.9	6.4
1976	354.5	486.4	840.9	11.7	11.0	22.7	75.4	43.4	118.8	12.6	46.7	59.3	2.2	6.6	8.8
1977	352.7	535.0	887.7	12.1	12.6	24.7	63.5	47.8	111.3	24.2	57.8	82.0	2.0	6.4	8.4
1978	362.9	541.6	904.5	9.7	8.4	18.1	53.1	49.4	102.5	27.1	59.1	86.2	1.7	7.3	9.0
1979	373.4	556.4	929.8	11.2	10.4	21.6	53.8	56.2	110.0	31.1	69.0	100.1	2.2	6.6	8.8
1980	355.7	450.3	806.0	7.9	8.8	16.7	57.3	55.8	113.1	30.9	66.1	97.0	2.2	6.6	8.8
PRODUCING CAPACITY															
1981	*386.0*	*522.0*	*908.0*	*22.0*	*22.0*	*44.0*	*55.6*	*67.0*	*122.6*	*32.0*	*74.1*	*106.1*	*4.4*	*11.9*	*16.3*
1982	*386.0*	*522.0*	*908.0*	*22.0*	*22.0*	*44.0*	*55.6*	*67.0*	*122.6*	*32.0*	*74.1*	*106.1*	*4.4*	*11.9*	*16.3*

	OTHER AMERICAS *(Continued)*														
	COLOMBIA			CUBA			MEXICO			PERU	URUGUAY	VENEZUELA	TOTAL OTHER AMERICAS		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	Y	Y	Y	S	TOT
1974	8.4	7.0	15.4	4.4	6.8	11.2	40.6	28.0	68.6	3.7	1.8	8.4	200.0	164.7	364.7
1975	8.6	3.7	12.3	5.1	8.1	13.2	40.6	26.0	66.6	3.9	2.4	7.3	182.1	131.6	313.7
1976	7.5	0	7.5	5.5	7.7	13.2	43.0	25.1	68.1	4.6	2.4	6.2	171.1	140.5	311.6
1977	7.3	0	7.3	5.3	8.1	13.4	41.2	19.4	60.6	2.9	2.6	6.6	167.7	152.1	319.8
1978	7.5	0	7.5	5.1	8.1	13.2	37.9	23.1	61.0	2.4	2.9	6.6	154.0	155.4	309.4
1979	7.5	0	7.5	5.3	8.4	13.7	37.7	22.7	60.4	2.9	3.1	6.6	161.4	173.3	334.7
1980	5.3	0	5.3	4.9	8.4	13.3	37.0	24.3	61.3	2.4	2.9	6.2	157.0	170.0	327.0
PRODUCING CAPACITY															
1981	*7.7*	*0*	*7.7*	*6.6*	*11.0*	*17.6*	*48.1*	*26.5*	*74.6*	*3.7*	*3.3*	*6.6*	*190.0*	*212.5*	*402.5*
1982	*7.7*	*0*	*7.7*	*6.6*	*11.0*	*17.6*	*48.1*	*26.5*	*74.6*	*3.7*	*3.3*	*6.6*	*190.0*	*212.5*	*402.5*

				OTHER AFRICA, ASIA & OCEANIA													
	JAPAN			AUSTRALIA	BANGLADESH	PEOPLE'S REPUBLIC OF CHINA			REPUBLIC OF CHINA (TAIWAN)			EGYPT			INDIA		
YEAR	Y	S	TOT	Y	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1974	254.9	724.6	979.5	13.2	3.1	98.1	122.1	220.2	6.8	98.8	105.6	11.7	4.2	15.9	125.4	171.1	296.5
1975	227.5	563.5	791.0	6.6	3.5	108.0	134.5	242.5	5.9	102.5	108.4	13.9	7.3	21.2	119.5	147.9	267.4
1976	241.0	551.8	792.8	0	2.0	121.2	154.3	275.5	6.8	144.2	151.0	13.9	7.0	20.9	133.6	184.5	318.1
1977	236.8	601.2	838.0	0	3.1	134.5	169.7	304.2	6.6	146.8	153.4	13.7	5.3	19.0	129.8	192.0	321.8
1978	242.0	616.0	858.0	0	6.6	143.3	176.4	319.7	6.8	154.1	160.9	13.2	8.2	21.4	137.6	202.8	340.4
1979	252.0	640.2	892.2	0	9.0	149.9	187.4	337.3	6.6	154.3	160.9	12.8	9.2	22.0	133.4	203.2	336.6
1980	263.0	612.9	875.9	0	7.7	165.3	209.4	374.7	6.6	166.0	172.6	13.2	8.8	22.0	127.2	164.7	291.9
PRODUCING CAPACITY																	
1981	*299.8*	*699.3*	*999.1*	*0*	*11.9*	*220.5*	*286.6*	*507.1*	*8.8*	*194.0*	*202.8*	*15.4*	*11.9*	*27.3*	*145.5*	*245.4*	*390.9*
1982	*299.8*	*699.3*	*999.1*	*0*	*11.9*	*220.5*	*286.6*	*507.1*	*8.8*	*194.0*	*202.8*	*15.4*	*11.9*	*27.3*	*145.5*	*245.4*	*390.9*

	OTHER AFRICA, ASIA & OCEANIA *(Continued)*														
	INDONESIA	IRAQ			REPUBLIC OF KOREA			PAKISTAN	THAILAND	TOTAL OTHER A, A & O			WORLD TOTAL		
YEAR	S	Y	S	TOT	Y	S	TOT	Y	S	Y	S	TOT	Y	S	TOT
1974	0	6.6	12.3	18.9	21.1	0	21.1	8.4	0	294.4	408.5	702.9	2871.0	4915.7	7786.7
1975	0	6.6	12.1	18.7	21.6	0	21.6	6.4	0	292.0	404.3	696.3	2503.4	4019.8	6523.2
1976	0	6.6	12.1	18.7	31.3	15.6	46.9	5.7	4.4	321.1	522.1	843.2	2618.8	4457.1	7075.9
1977	0	6.2	11.7	17.9	28.2	21.4	49.6	5.7	23.6	327.8	570.5	898.3	2583.8	4648.9	7232.7
1978	0	6.6	12.1	18.7	28.0	22.0	50.0	5.1	29.8	347.2	605.4	952.6	2572.4	4742.0	7314.4
1979	0	6.4	11.9	18.3	29.1	22.9	52.0	4.4	33.3	351.6	622.2	973.8	2593.3	4837.2	7430.5
1980	0	6.6	12.1	18.7	27.3	33.1	60.4	6.0	36.2	359.9	630.3	990.2	2555.1	4595.5	7150.6
PRODUCING CAPACITY															
1981	*0*	*7.7*	*14.3*	*22.0*	*31.5*	*62.2*	*93.7*	*7.3*	*40.3*	*448.6*	*854.7*	*1303.3*	*2943.8*	*5392.2*	*8336.0*
1982	*22.0*	*7.7*	*14.3*	*22.0*	*31.5*	*62.2*	*93.7*	*7.3*	*40.3*	*448.6*	*876.7*	*1325.3*	*2919.5*	*5636.8*	*8556.3*

8

RAYON VS. ACETATE FILAMENT YARN PRODUCTION & PRODUCING CAPACITY BY COUNTRY

MILLION POUNDS

	WEST EUROPE																					
	AUSTRIA		BELGIUM/ NETHERLANDS			FRANCE			WEST GERMANY			ITALY			SPAIN			SWEDEN	UNITED KINGDOM		
YEAR	H	R	H	R	A	H	R	A	H	R+C	A	H	R+C	A	H	R	A	H	H	R	A
1974	25	8	38	53	15	42	39	12	91	54	8	29	54	36	18	28	3	6	45	36	74
1975	15	7	28	37	13	28	27	7	55	46	7	20	40	31	12	20	4	2	41	27	70
1976	24	9	38	37	11	20	29	5	88	53	5	24	39	40	13	17	4	0	43	39	74
1977	20	8	38	31	11	18	28	0	84	53	4	24	34	40	15	13	5	0	37	27	74
1978	18	7	34	32	13	20	22	0	77	51	4	25	25	37	13	11	6	0	33	22	76
1979	18	8	30	34	15	21	20	0	72	52	4	25	19	41	11	10	7	0	24	23	83
1980	25	9	34	35	5	17	19	0	88	52	4	25	11	45	13	8	7	0	3	4	74
PRODUCING CAPACITY																					
1981	*25*	*10*	*42*	*37*	*17*	*22*	*22*	*0*	*95*	*53*	*4*	*26*	*27*	*51*	*19*	*11*	*9*	*0*	*0*	*0*	*82*
1982	*25*	*10*	*42*	*37*	*17*	*0*	*18*	*0*	*95*	*53*	*4*	*26*	*27*	*51*	*19*	*11*	*9*	*0*	*0*	*0*	*82*

	W. EUROPE *(Cont.)*				EAST EUROPE																
	OTHER[a]	TOTAL WEST EUROPE			BULGARIA	CZECHOSLOVAKIA		GERMAN DEM. REP.		POLAND		ROMANIA		U.S.S.R.			YUGOSLAVIA		TOTAL EAST EUROPE		
YEAR	R	H	R+C	A	R	H	R	H	R	H	R	H	R	H	R+C	A	H	R	H	R+C	A
1974	29	294	301	148	5	16	29	29	46	19	48	22	9	320	172	97	16	18	422	327	97
1975	29	201	233	132	6	21	26	28	44	17	45	22	9	351	165	104	15	17	454	312	104
1976	33	250	256	139	7	20	28	31	49	17	46	15	9	353	170	108	15	18	451	327	108
1977	34	236	228	134	7	21	27	29	50	17	46	13	7	364	176	110	15	18	459	331	110
1978	34	220	204	136	7	22	25	29	46	18	44	13	8	364	176	121	15	18	461	324	121
1979	33	201	199	150	7	22	27	29	48	16	44	13	8	360	176	121	16	18	456	328	121
1980	28	205	166	135	7	20	24	30	51	14	42	13	8	364	187	121	15	18	456	337	121
PRODUCING CAPACITY																					
1981	*38*	*229*	*198*	*163*	*11*	*24*	*31*	*32*	*53*	*19*	*50*	*13*	*9*	*375*	*221*	*154*	*18*	*20*	*481*	*395*	*154*
1982	*40*	*207*	*196*	*163*	*11*	*24*	*31*	*32*	*53*	*19*	*50*	*13*	*9*	*375*	*221*	*154*	*18*	*20*	*481*	*395*	*154*

				OTHER AMERICAS																		
	U.S.A.			ARGENTINA			BRAZIL			CANADA	CHILE	COLOMBIA		CUBA		MEXICO			PERU		URUGUAY	VENEZUELA
YEAR	H	R+C	A	H	R	A	H	R	A	A	R	R	A	H	R	H	R	A	R	A	A	A
1974	113	59	361	2	12	5	21	40	18	32	2	2	6	4	+	3	16	22	2	2	2	9
1975	46	19	301	2	9	5	29	25	14	29	2	1	7	5	+	6	15	20	2	2	2	7
1976	53	15	287	2	7	3	34	27	14	13	2	0	7	6	+	7	15	21	2	3	2	6
1977	55	16	282	3	7	2	25	26	13	24	2	0	7	5	+	6	15	20	2	1	3	7
1978	47	15	301	3	5	2	18	27	8	27	2	0	7	5	+	5	14	19	+	2	3	7
1979	42	15	316	3	6	2	16	31	7	31	2	0	7	5	+	6	14	18	+	3	3	7
1980	32	15	308	3	3	2	14	35	8	31	2	0	5	5	+	6	13	18	0	3	3	6
PRODUCING CAPACITY																						
1981	*48*	*15*	*323*	*3*	*12*	*7*	*10*	*35*	*10*	*32*	*4*	*0*	*8*	*7*	*+*	*11*	*15*	*22*	*0*	*4*	*3*	*7*
1982	*48*	*15*	*323*	*3*	*12*	*7*	*10*	*35*	*10*	*32*	*4*	*0*	*8*	*7*	*+*	*11*	*15*	*22*	*0*	*4*	*3*	*7*

							OTHER AFRICA, ASIA & OCEANIA															
	TOTAL OTHER AMERICAS			JAPAN			AUSTRALIA		INDIA			PAKISTAN		REP. OF KOREA		OTHER[b]	TOTAL OTHER A, A & O			WORLD TOTAL		
YEAR	H	R	A	H	R+C	A	H	A	H	R	A	R	A	R	A	R	H	R	A	H	R+C	A
1974	30	74	96	11	175	69	8	5	40	81	4	+	8	17	4	127	48	225	21	918	1161	792
1975	42	54	86	10	164	53	3	4	42	73	4	0	6	18	4	138	45	229	18	798	1011	694
1976	49	53	69	10	167	64	0	0	38	91	4	0	6	26	5	151	38	268	15	851	1086	682
1977	39	52	77	9	163	65	0	0	37	88	5	0	6	23	5	164	37	275	16	835	1085	684
1978	31	48	75	9	172	61	0	0	39	94	5	0	5	23	5	176	39	293	15	807	1056	709
1979	30	53	78	8	176	68	0	0	36	92	5	0	4	24	5	186	36	302	14	773	1073	747
1980	28	53	76	8	185	70	0	0	31	92	4	0	6	23	4	200	31	315	14	760	1071	724
PRODUCING CAPACITY																						
1981	*31*	*66*	*33*	*22*	*202*	*76*	*0*	*0*	*44*	*97*	*7*	*0*	*7*	*27*	*5*	*261*	*44*	*385*	*19*	*855*	*1261*	*828*
1982	*31*	*66*	*93*	*22*	*202*	*76*	*0*	*0*	*44*	*97*	*7*	*0*	*7*	*27*	*5*	*261*	*44*	*385*	*19*	*833*	*1259*	*828*

H means high tenacity (tire & industrial type) viscose rayon yarn. **R** means regular+intermediate tenacity viscose rayon yarn. **C** means cuprammonium rayon yarn. **A** means acetate+triacetate yarn.

a. "Other West Europe" comprises Finland, Greece, Portugal, Switzerland and Turkey.

b. "Other Africa, Asia & Oceania" comprises Bangladesh, People's Republic of China, Republic of China (Taiwan), Egypt and Iraq.

9

WORLD NON-CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY FIBER EXCEPT OLEFIN

MILLION POUNDS

FIBER & AREA	PRODUCTION																					PRODUCING CAPACITY					
	1974			1975			1976			1977			1978			1979			1980			1981			1982		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC																											
WEST EUROPE	4	1292	1296	2	1188	1190	1	1619	1620	+	1493	1493	+	1750	1750	+	1753	1753	+	1620	1620	+	2341	2341	+	2264	2264
EAST EUROPE	0	332	332	0	359	359	0	380	380	0	405	405	0	442	442	0	469	469	0	501	501	0	583	583	0	729	729
U.S.A.	0	631	631	0	525	525	0	621	621	0	709	709	0	725	725	0	761	761	0	779	779	0	830	830	0	853	853
OTHER AMERICAS	0	131	131	0	146	146	0	181	181	0	181	181	0	214	214	0	239	239	0	251	251	0	302	302	0	382	382
JAPAN	5	609	614	4	532	536	6	678	684	6	739	745	6	817	823	9	783	792	6	772	778	13	882	895	13	882	895
ALL OTHER	0	189	189	0	310	310	0	357	357	0	411	411	0	501	501	0	548	548	0	669	669	0	798	798	0	798	798
TOTAL	9	3184	3193	6	3060	3066	7	3836	3843	6	3938	3944	6	4449	4455	9	4553	4562	6	4592	4598	13	5736	5749	13	5908	5921
NYLON+ARAMID																											
WEST EUROPE	1395	259	1654	1194	193	1387	1395	269	1664	1249	268	1517	1247	330	1577	1259	326	1585	1141	278	1419	1635	477	2112	1559	466	2025
EAST EUROPE	601	60	661	722	61	783	854	62	916	869	67	936	892	69	961	914	68	982	1012	73	1085	1143	141	1284	1308	189	1497
U.S.A.	1560	564	2124	1295	562	1857	1372	703	2075	1512	814	2326	1654	896	2550	1781	939	2720	1631	727	2358	1949	970	2919	2026	1058	3084
OTHER AMERICAS	328	27	355	347	38	385	376	43	419	385	44	429	412	49	461	452	50	502	457	50	507	611	79	690	670	84	754
JAPAN	612	35	647	581	33	614	628	36	664	643	35	678	646	35	681	653	37	690	662	39	701	701	53	754	701	53	754
ALL OTHER	337	4	341	453	5	458	536	6	542	584	6	590	682	7	689	753	7	760	803	5	808	1043	22	1065	1102	22	1124
TOTAL	4633	949	5782	4592	892	5484	5161	1119	6280	5242	1234	6476	5533	1386	6919	5812	1427	7239	5706	1172	6878	7082	1742	8824	7366	1872	9238
POLYESTER																											
WEST EUROPE	854	875	1729	795	709	1504	866	895	1761	808	903	1711	867	945	1812	897	982	1879	771	912	1683	1124	1411	2535	1055	1420	2475
EAST EUROPE	148	404	552	168	449	617	191	499	690	207	641	848	247	669	916	259	680	939	277	728	1005	328	930	1258	431	1140	1571
U.S.A.	1408	1518	2926	1459	1536	2995	1405	1935	3340	1592	2050	3642	1564	2236	3800	1716	2462	4178	1462	2527	3989	1840	2716	4556	1800	2806	4606
OTHER AMERICAS	293	202	495	357	194	551	369	222	591	423	265	688	432	296	728	472	362	834	474	371	845	663	521	1184	699	543	1242
JAPAN	448	579	1027	440	542	982	553	625	1178	615	649	1264	701	703	1404	692	702	1394	672	706	1378	818	751	1569	818	751	1569
ALL OTHER	255	219	474	398	375	773	461	563	1024	519	812	1331	707	1102	1809	851	1222	2073	963	1454	2417	1305	1832	3137	1528	2087	3615
TOTAL	3406	3797	7203	3617	3805	7422	3845	4739	8584	4164	5320	9484	4518	5951	10469	4887	6410	11297	4619	6698	11317	6078	8161	14239	6331	8747	15078
OTHER FIBERS[a] EXCEPT OLEFIN																											
WEST EUROPE	9	33	42	8	24	32	8	24	32	8	21	29	8	21	29	11	23	34	10	25	35	18	27	45	18	29	47
EAST EUROPE	18	18	36	18	14	32	20	14	34	20	12	32	20	16	36	11	15	26	16	15	31	23	27	50	25	27	52
U.S.A.	12	5	17	12	2	14	14	3	17	16	3	19	16	3	19	18	3	21	19	3	22	20	7	27	20	7	27
OTHER AMERICAS	+	0	+	+	0	+	1	0	1	2	0	2	2	0	2	2	0	2	2	0	2	3	0	3	3	0	3
JAPAN	48	145	193	33	86	119	34	95	129	37	99	136	34	92	126	38	91	129	39	95	134	62	227	289	62	227	289
ALL OTHER	9	30	39	10	31	41	11	32	43	13	36	49	11	55	66	11	66	77	13	88	101	22	143	165	22	143	165
TOTAL	96	231	327	81	157	238	88	168	256	96	171	267	91	187	278	91	198	289	99	226	325	148	431	579	150	433	583
TOTAL FIBERS ABOVE																											
WEST EUROPE	2262	2459	4721	1999	2114	4113	2270	2807	5077	2065	2685	4750	2122	3046	5168	2167	3084	5251	1922	2835	4757	2777	4256	7033	2632	4179	6811
EAST EUROPE	767	814	1581	908	883	1791	1065	955	2020	1096	1125	2221	1159	1196	2355	1184	1232	2416	1305	1317	2622	1494	1681	3175	1764	2085	3849
U.S.A.	2980	2718	5698	2766	2625	5391	2791	3262	6053	3120	3576	6696	3234	3860	7094	3515	4165	7680	3112	4036	7148	3809	4523	8332	3846	4724	8570
OTHER AMERICAS	621	360	981	704	378	1082	746	446	1192	810	490	1300	846	559	1405	926	651	1577	933	672	1605	1277	902	2179	1372	1009	2381
JAPAN	1113	1368	2481	1058	1193	2251	1221	1434	2655	1301	1522	2823	1387	1647	3034	1392	1613	3005	1379	1612	2991	1594	1913	3507	1594	1913	3507
ALL OTHER	601	442	1043	861	721	1582	1008	958	1966	1116	1265	2381	1400	1665	3065	1615	1843	3458	1779	2216	3995	2370	2795	5165	2652	3050	5702
WORLD TOTAL	8344	8161	16505	8296	7914	16210	9101	9862	18963	9508	10663	20171	10148	11973	22121	10799	12588	23387	10430	12688	23118	13321	16070	29391	13860	16960	30820

Y means yarn+monofilaments. S means staple+tow+fiberfill. The regional totals here are the same as those on pages 116-118.

a. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE-fluorocarbon, vinal and vinyon.

1980 MAN-MADE FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY (EXCEPT OLEFIN & TEXTILE GLASS)

MILLION POUNDS

COUNTRY & AREA	RAYON+ACETATE YARN				RAYON+ACETATE STAPLE				NON-CELLULOSIC YARN				NON-CELLULOSIC STAPLE				TOTAL MAN-MADE FIBERS					
	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMPORT	EXPORT	R+A SPUN	N-C SPUN	NET AVAIL
WEST EUROPE																						
AUSTRIA	33.7	6.8	27.6	12.9	221.8	8.8	176.4	54.2	0	52.5	7.9	44.6	56.0	34.8	31.5	59.3	311.5	102.9	243.4	-27.8	-4.4	138.8
BENELUX	74.5	48.7	42.5	80.7	48.5	65.5	77.8	36.2	158.5	192.7	68.1	283.1	71.4	170.0	50.5	190.9	352.9	476.9	238.9	+4.2	+31.5	626.6
EIRE (IRELAND)	0	4.2	--	4.2	0	4.0	2.2	1.8	24.2	39.5	16.5	47.2	70.5	10.4	70.1	10.8	94.7	58.1	88.8	-0.9	-5.7	57.4
FINLAND	1.3	2.9	1.3	2.9	104.1	5.9	98.7	11.3	0.9	25.8	2.2	24.5	0	27.1	--	27.1	106.3	61.7	102.2	+2.9	+8.1	76.8
FRANCE	36.2	58.4	36.2	58.4	109.3	36.6	78.7	67.2	144.0	179.9	88.0	235.9	279.3	215.0	28.0	466.3	568.8	489.9	230.9	+5.1	-5.9	827.0
GERMANY, WEST	143.7	61.1	95.0	109.8	101.4	78.5	64.4	115.5	700.4	219.6	564.8	355.2	887.1	199.7	630.5	456.3	1832.6	558.9	1354.7	+4.8	+20.7	1062.3
GREECE	15.9	1.8	7.7	10.0	0	5.9	0	5.9	19.8	9.3	3.3	25.8	22.0	53.1	4.9	70.2	57.7	70.1	15.9	0	--	111.9
ITALY/MALTA	80.7	51.1	27.1	104.7	60.6	64.1	5.7	119.0	275.4	127.9	204.6	198.7	506.8	262.8	278.2	491.4	923.5	505.9	515.6	-11.7	-87.1	815.0
NORWAY	0	2.0	--	2.0	62.6	2.2	51.4	13.4	0	15.6	1.5	14.1	0	9.0	--	9.0	62.6	28.8	52.9	+0.9	+4.4	43.8
PORTUGAL	6.0	4.4	1.1	9.3	1.8	23.6	--	25.4	3.3	35.9	5.3	33.9	65.3	30.7	3.5	92.5	76.4	94.6	9.9	-6.2	-5.7	149.2
SPAIN	28.2	3.5	5.7	26.0	88.4	22.7	22.0	89.1	143.0	24.9	17.6	150.3	314.2	88.2	90.4	312.0	573.8	139.3	135.7	-4.4	-28.7	544.3
SWEDEN	0	5.5	0.7	4.8	80.5	11.7	68.6	23.6	0.2	68.1	6.8	61.5	0	17.8	--	17.8	80.7	103.1	76.1	+1.1	+2.9	111.7
SWITZERLAND	4.0	4.0	7.0	1.0	0	19.2	--	19.2	112.9	18.5	123.7	7.7	52.2	30.2	41.9	40.5	169.1	71.9	172.6	+1.3	-8.1	61.6
TURKEY	0.7	2.4	--	3.1	11.0	4.0	0	15.0	61.7	23.8	--	85.5	154.3	29.6	--	183.9	227.7	59.8	--	0	0	287.5
UNITED KINGDOM	80.9	41.0	75.4	46.5	241.0	73.0	211.0	103.0	277.6	205.2	181.1	301.7	356.5	134.3	277.3	213.5	956.0	453.5	744.8	-8.6	+21.6	677.7
TOTAL WEST EUROPE	**505.8**	**297.8**	**327.3**	**476.3**	**1131.0**	**425.7**	**856.9**	**699.8**	**1921.9**	**1239.2**	**1291.4**	**1869.7**	**2835.6**	**1312.7**	**1506.8**	**2641.5**	**6394.3**	**3275.4**	**3982.4**	**-39.3**	**-56.4**	**5591.6**
U.S.A.	**355.7**	**8.4**	**41.2**	**322.9**	**450.3**	**10.4**	**71.0**	**389.7**	**3112.1**	**21.4**	**420.6**	**2712.9**	**4035.5**	**38.4**	**732.4**	**3341.5**	**7953.6**	**78.6**	**1265.2**	**--**	**-9.9**	**6757.1**
OTHER AMERICAS																						
ARGENTINA	7.9	2.2	2.4	7.7	8.8	1.8	1.5	9.1	48.5	5.3	2.6	51.2	35.3	15.2	0.7	49.8	100.5	24.5	7.2	0	+0.4	118.2
BRAZIL	57.3	3.3	8.4	52.2	55.8	6.8	2.0	60.6	300.7	15.2	1.8	314.1	209.4	17.4	9.9	216.9	623.2	42.7	22.1	--	+0.2	644.0
CANADA	30.9	17.0	12.8	35.1	66.1	9.3	46.3	29.1	163.1	84.1	26.2	221.0	105.8	80.9	19.8	166.9	365.9	191.3	105.1	+0.4	+11.8	464.3
CHILE	2.2	0.7	0	2.9	6.6	0.9	0	7.5	11.0	3.1	0	14.1	5.5	16.5	0	22.0	25.3	21.2	0	0	+1.3	47.8
COLOMBIA	5.3	0.4	0	5.7	0	5.5	0	5.5	50.7	12.6	0	63.3	24.0	9.5	0	33.5	80.0	28.0	0	--	+0.2	108.2
COSTA RICA	0	3.5	0	3.5	0	0.4	0	0.4	6.6	16.5	0	23.1	0	3.3	0	3.3	6.6	23.7	0	0	+0.2	30.5
CUBA	4.9	0.7	0	5.6	8.4	0.9	0	9.3	0	2.9	0	2.9	0	4.4	0	4.4	13.3	8.9	0	+0.2	+5.2	27.6
ECUADOR	0	0.4	0	0.4	0	2.4	0	2.4	7.7	6.2	0	13.9	0	10.6	0	10.6	7.7	19.6	0	0	+0.2	27.5
MEXICO	37.0	0.5	2.6	34.9	24.3	9.3	6.2	27.4	302.0	17.0	5.1	313.9	225.6	16.8	0.4	242.0	588.9	43.6	14.3	--	+0.2	618.4
PERU	2.4	0.2	0.2	2.4	0	1.5	0	1.5	15.4	8.2	0	23.6	47.4	13.0	0	60.4	65.2	22.9	0.2	0	+0.2	88.1
URUGUAY	2.9	0.4	0.7	2.6	0	10.8	0	10.8	2.2	1.8	--	4.0	5.5	4.2	0.7	9.0	10.6	17.2	1.4	-0.2	--	26.2
VENEZUELA	6.2	4.0	0	10.2	0	20.5	0	20.5	25.4	16.0	0	41.4	13.2	5.7	0	18.9	44.8	46.2	0	--	+0.4	91.4
TOTAL OTHER AMERICAS	**157.0**	**33.3**	**27.1**	**163.2**	**170.0**	**70.1**	**56.0**	**184.1**	**933.3**	**188.9**	**35.7**	**1086.5**	**671.7**	**197.5**	**31.5**	**837.7**	**1932.0**	**489.8**	**150.3**	**+0.4**	**+20.3**	**2292.2**
JAPAN	**263.0**	**3.3**	**94.1**	**172.2**	**612.9**	**0.7**	**298.3**	**315.3**	**1379.4**	**55.3**	**252.4**	**1182.3**	**1611.8**	**48.9**	**536.8**	**1123.9**	**3867.1**	**108.2**	**1181.6**	**-9.9**	**-87.7**	**2696.1**
AFRICA, ASIA & OCEANIA																						
AUSTRALIA/N.Z.	0	7.7	0.4	7.3	0	6.7	0.7	6.0	28.7	25.6	0	54.3	--	38.4	0.4	38.0	28.7	78.4	1.5	+0.4	+10.9	116.9
BANGLADESH	7.7	0	0.9	6.8	0	15.5	0	15.5	0.7	1.3	0	2.0	0	0.2	0	0.2	8.4	17.0	0.9	0	+0.2	24.7
CHINA, REP. OF (TAIWAN)	6.6	3.7	6.4	3.9	166.0	47.4	41.9	171.5	583.6	21.8	245.1	360.3	646.4	107.3	116.0	637.7	1402.6	180.2	409.4	--	--	1173.4
EGYPT	13.2	1.5	0	14.7	8.8	0	0	8.8	4.0	10.1	0	14.1	11.0	14.3	0	25.3	37.0	25.9	0	0	+0.4	63.3
INDIA	127.2	2.6	4.4	125.4	164.7	99.6	0	264.3	87.5	20.5	0.7	107.3	67.9	13.9	0.4	81.4	447.3	136.6	5.5	0	--	578.4
INDONESIA	0	10.6	0	10.6	0	51.6	0	51.6	91.5	30.4	1.3	120.6	118.8	30.0	0	148.8	210.3	122.6	1.3	+0.4	+2.6	334.6
IRAN	0	10.6	0	10.6	0	95.2	0	95.2	9.9	28.9	0	38.8	0	73.2	0	73.2	9.9	207.9	0	+0.4	+21.9	240.1
IRAQ	6.6	2.2	0	8.8	12.1	3.5	0	15.6	0	14.8	0	14.8	0	10.4	0	10.4	18.7	30.9	0	+0.8	+6.6	57.0
ISRAEL	0	1.8	0	1.8	0	2.0	0	2.0	23.1	18.1	9.0	32.2	14.6	9.2	5.3	18.5	37.7	31.1	14.3	0	+0.9	55.4
KOREA, REPUBLIC OF	27.3	14.9	7.5	34.7	33.1	17.4	2.2	48.3	562.6	25.8	39.5	548.9	619.9	29.5	65.0	584.4	1242.9	87.6	114.2	-8.3	-125.5	1082.5
MALAYSIA	0	1.3	--	1.3	0	27.1	3.1	24.0	0	26.7	0.2	26.5	79.4	33.3	10.4	102.3	79.4	88.4	13.7	+0.2	-7.7	146.6
NIGERIA	0	4.8	0	4.8	0	4.6	0	4.6	7.7	22.0	2.2	27.5	8.8	4.6	4.9	8.5	16.5	36.0	7.1	+2.6	+10.8	58.8
PAKISTAN	6.0	5.1	0	11.1	0	28.7	0	28.7	3.3	17.9	0	21.2	0	25.6	0	25.6	9.3	77.3	0	0	+1.1	87.7
PHILIPPINES	0	1.2	0	1.2	0	34.6	0	34.6	66.1	8.6	4.6	70.1	30.9	27.6	0	58.5	97.0	72.0	4.6	--	+0.2	164.6
SOUTH AFRICA	0	12.3	--	12.3	0	46.3	0.2	46.1	73.9	24.9	1.1	97.7	44.1	82.0	2.4	123.7	118.0	165.5	3.7	--	+1.3	281.1
THAILAND	0	2.6	0.2	2.4	36.2	2.2	0.2	38.2	88.2	9.5	36.2	61.5	124.6	38.4	9.9	153.1	249.0	52.7	46.5	--	+1.1	256.3
TOTAL A, A & O ABOVE	**194.6**	**82.9**	**19.8**	**257.7**	**420.9**	**482.4**	**48.3**	**855.0**	**1630.8**	**306.9**	**339.9**	**1597.8**	**1766.4**	**537.9**	**214.7**	**2089.6**	**4012.7**	**1410.1**	**622.7**	**-3.5**	**-75.2**	**4721.4**
HUNGARY	0	33.7	0.4	33.3	18.5	34.6	9.6	43.5	8.2	23.4	0.7	30.9	30.4	35.5	14.0	51.9	57.1	127.2	24.7	0	+7.5	167.1
POLAND	55.8	5.3	5.5	55.6	134.3	41.2	0.4	175.1	196.9	40.8	10.1	227.6	150.8	79.1	12.3	217.6	537.8	166.4	28.3	+0.9	+9.9	686.7

WORLD OLEFIN FIBER PRODUCTION

MILLION POUNDS

COUNTRY	1974	1975	1976	1977	1978	1979	1980
WEST EUROPE							
BENELUX	40	49	75	90	108	123	126
DENMARK	18	17	15	27	31	33	31
FRANCE	46	55	77	57	66	53	59
GERMANY, WEST	68	79	102	113	115	126	117
ITALY	106	115	121	117	130	135	126
IRELAND (EIRE)	13	9	13	13	11	13	20
UNITED KINGDOM	148	135	157	174	176	181	176
SUBTOTAL EEC	**439**	**459**	**560**	**591**	**637**	**664**	**655**
AUSTRIA	15	25	33	33	39	41	39
FINLAND	2	4	7	7	7	7	7
GREECE/CYPRUS	9	9	13	17	20	22	20
NORWAY	11	9	9	7	7	9	9
PORTUGAL	53	44	48	59	86	84	88
SPAIN	22	31	46	77	79	81	83
SWEDEN	2	4	7	7	7	7	7
SWITZERLAND	7	7	7	7	7	7	7
TURKEY	11	11	11	11	13	11	11
TOTAL W. EUROPE	**571**	**604**	**741**	**816**	**902**	**933**	**926**
EAST EUROPE							
CZECHOSLOVAKIA	22	22	24	26	24	26	24
HUNGARY	11	13	13	18	22	29	33
POLAND	13	13	24	29	31	29	31
U.S.S.R.	+	7	18	26	26	33	33
U.S.A.							
YARN+MONOFIL	273	262	295	304	315	333	324
STAPLE	64	53	60	79	95	119	112
FILM FIBER	190	181	220	249	282	306	309
OTHER AMERICAS							
ARGENTINA	9	13	20	22	24	24	22
BRAZIL	37	41	59	73	88	86	88
CANADA	71	73	66	70	68	71	66
CHILE	0	0	0	0	2	2	2
EL SALVADOR GUATEMALA HONDURAS	2	2	2	4	4	4	4
MEXICO	11	11	15	37	40	44	48
NICARAGUA	+	+	2	2	2	2	2
PERU	4	7	9	11	11	11	11
URUGUAY	4	4	4	4	2	2	2
JAPAN							
YARN+MONOFIL	40	24	31	33	35	40	35
STAPLE	68	66	62	55	60	64	60
FILM FIBER	90	88	97	99	NA	NA	NA
OTHER AFRICA, ASIA & OCEANIA							
AUSTRALIA	35	33	35	37	40	44	44
CHINA (TAIWAN)	11	13	13	46	57	55	55
KOREA, REP. OF	18	11	11	13	15	18	9
PHILLIPINES	0	+	+	2	4	4	4
SOUTH AFRICA	24	22	22	20	7	7	7
OTHER	0	0	0	+	+	+	+

The olefin data shown comprise (a) the poundages of yarn, monofilaments and staple plus film fiber reported by official sources, such as governments, trade associations or other statistical agents plus (b) estimates of the additional poundages of olefin fiber not included in the aforementioned data. Note text on page 82 of the June ORGANON.

No attempt is made to strike a world total inasmuch as data are incomplete for a number of countries, particularly in Latin America, East Europe and Other Africa, Asia & Oceania.

(Continued from page 115)

Staple includes tow, fiberfill, tops and advanced waste. Unprocessed waste is not included.

In a few cases where a country's import or export data could not be accurately separated as rayon+acetate vs. non-cellulosic fiber, a division was estimated.

Except for spun yarn imports and exports, imports and exports of manufactured and semimanufactured man-made fiber products (e.g., fabric dresses, hosiery, etc.) are not included in the data.

The tables show the net import-export poundage of spun yarn under the "Total Man-Made Fiber" columns; space does not permit the presentation of the import and export data separately.

U.S. MAN-MADE FIBER PRODUCING CAPACITY

As of the end of May, the U.S. man-made fiber producing industry had the capacity to produce 11,857 million pounds of fiber per year. This is the second consecutive decline in fiber capacity. Thus May 1981 capacity is 1½% lower than the November 1980 capacity of 12,029 million pounds.

By May 1983, total man-made fiber producing capacity is expected to expand by 5½% to 12,497 million pounds annually. Non-cellulosic fiber capacity is expected to increase by 5% to 9,962 million pounds over the 2-year span, while textile glass fiber capacity is projected to grow by 13% to 1,627 million pounds. The cellulosic fibers remain unchanged at 908 million pounds over this 2-year period.

NON-CELLULOSIC PRODUCING CAPACITY

As of the end of May 1981, the U.S. fiber industry had the capability to produce 9,509 million pounds of non-cellulosic fibers, a decline of 1½% from its November 1980 capacity of 9,647 million pounds. The capacity is projected to increase by 5% to 9,962 as of May 1983.

Non-cellulosic yarn+monofilament capacity currently stands at 4,748 million pounds and is expected to increase by 3½% to 4,921 million pounds by May 1983. Over this 2-year period, nylon yarn is projected to increase by 4½% to 2,038 million pounds, polyester yarn to decrease by 2% to 1,805 million pounds, olefin to increase by 13% to 1,058 million pounds and saran and spandex to remain unchanged at 20 million pounds.

Non-cellulosic staple+tow+fiberfill capacity, as of the end of May 1981, is 4,761 million pounds and is projected to grow by 6% to 5,041 million pounds by May 1983. Following is the May 1981 and May 1983 capacity (million pounds) and the percentage change, respectively, for non-cellulosic staple+tow+fiberfill: nylon 970 & 1,072 & +11%; acrylic+modacrylic 830 & 857 & +3½%;

(Continued on page 126)

U.S. MAN-MADE FIBER PRODUCTION & PRODUCING CAPACITY

MILLION POUNDS & *Average Denier*

	RAYON & ACETATE								NON-CELLULOSIC FIBERS[a]			TEXTILE GLASS TOTAL[c]	GRAND TOTAL MAN-MADE FIBERS		
	FILAMENT YARN+MONOFIL				STAPLE+TOW										
		ACETATE[b]													
PERIOD	RAYON	LBS	*Den*	TOTAL	RAYON	ACETATE[b]	TOTAL	TOTAL	YARN +MONO	STAPLE +TOW	TOTAL		YARN[d] +MONO	STAPLE +TOW	TOTAL
ACTUAL ANNUAL PRODUCTION															
1970	268	463		731	607	35	642	1373	1793	1793	3586	467	2991	2435	5426
1971	304	449		753	612	26	638	1391	2188	2105	4293	468	3409	2743	6152
1972	252	401		653	713	28	741	1394	2773	2583	5356	572	3998	3324	7322
1973	198	437		635	697	25	722	1357	3339	2970	6309	688	4662	3692	8354
1974	172	362		534	645	20	665	1199	3443	2780	6223	683	4660	3445	8105
1975	65	301		366	371	12	383	749	3209	2677	5886	546	4121	3060	7181
1976	68	287		355	475	11	486	841	3306	3320	6626	676	4337	3806	8143
1977	71	282		353	527	8	535	888	3674	3654	7328	787	4814	4189	9003
1978	62	301		363	535	7	542	905	3830	3953	7783	923	5116	4495	9611
1979	57	317		374	549	7	556	930	4155	4282	8437	1014	5543	4838	10381
1980	47	309		356	443	7	450	806	3744	4148	7892	868	4968	4598	9566
ACTUAL & PROJECTED CAPACITY, ANNUAL RATE, AS OF -															
NOV 1970[e]	360	494	NA	854	819	40	859	1713	2440	2422	4862	657	3951	3281	7232
NOV 1971[e]	337	490	NA	827	757	30	787	1614	2796	2620	5416	696	4319	3407	7726
NOV 1972[e]	235	486	NA	721	761	30	791	1512	3362	3034	6396	721	4804	3825	8629
NOV 1973[e]	224	473	NA	697	768	28	796	1493	3738	3302	7040	739	5174	4098	9272
NOV 1974[e]	172	449	NA	621	724	28	752	1373	4175	3584	7759	821	5617	4336	9953
NOV 1975[e]	100	384	NA	484	737	18	755	1239	4640	3796	8436	909	6033	4551	10584
NOV 1976[e]	85	399	NA	484	691	18	709	1193	4878	4254	9132	893	6255	4963	11218
NOV 1977[e]	85	315	*89*	400	655	8	663	1063	4974	4394	9368	1002	6376	5057	11433
NOV 1978[e]	83	330	*87*	413	665	8	673	1086	5000	4571	9571	1118	6531	5244	11775
NOV 1979[e]	75	355	*89*	430	671	8	679	1109	5126	4678	9804	1305	6861	5357	12218
NOV 1980[e]	63	324	*88*	387	514	8	522	909	4933	4714	9647	1473	6793	5236	12029
MAY 1981[e]	63	323	*89*	386	514	8	522	908	4748	4761	9509	1440	6574	5283	11857
NOV 1981[f]	63	323	*89*	386	514	8	522	908	4836	4867	9703	1516	6738	5389	12127
MAY 1982[f]	63	323	*89*	386	514	8	522	908	4844	4992	9836	1545	6775	5514	12289
NOV 1982[f]	63	323	*89*	386	514	8	522	908	4878	5007	9885	1621	6885	5529	12414
MAY 1983[f]	63	323	*89*	386	514	8	522	908	4921	5041	9962	1627	6934	5563	12497

a. The non-cellulosic fibers included are those listed in the September ORGANON issues each year. Yarn+mono includes olefin film fiber and spunbonded polypropylene. Staple +tow includes fiberfill.

b. The acetate production and producing capacity data include diacetate and triacetate. The acetate staple+tow data do not include the large poundages for cigarette filtration.

c. Textile glass fiber, all types.

d. Grand Total Yarn means the yarn+mono shown **plus** all textile glass fiber.

e. Actual producing capacity as of the date shown.

f. Future producing capacity planned for certain dates as of May 1981.

NON-CELLULOSIC FIBER CAPACITY DETAIL

MILLION POUNDS & *Average Denier*

	FILAMENT YARN, MONOFIL & OLEFIN FILM FIBER												STAPLE, TOW & FIBERFILL					NON-CELLULOSIC TOTAL
	NYLON+ARAMID				POLYESTER			OLEFIN[g]										
PERIOD	IND	CARP	TEXTILE		IND	TEXTILE		YARN	MONO[h]	FILM[h]	OTHER[i]	TOTAL	NYLON + ARAMID	ACRYL +MOD-ACRYL	POLY-ESTER	OLEFIN + VINYON	TOTAL	
NOV 1970[e]	480	428	569	NA	294	316	NA	110	119	106	18	2440	280	659	1370	113	2422	4862
NOV 1971[e]	463	531	522	NA	337	559	NA	89	163	113	19	2796	460	698	1355	107	2620	5416
NOV 1972[e]	469	626	559	NA	364	892	NA	96	177	159	20	3362	602	754	1571	107	3034	6396
NOV 1973[e]	466	707	534	NA	385	1118	NA	106	214	190	18	3738	701	787	1709	105	3302	7040
NOV 1974[e]	483	770	552	NA	403	1351	NA	125	254	221	16	4175	757	824	1899	104	3584	7759
NOV 1975[e]	503	786	553	NA	391	1576	NA	168	313	334	16	4640	827	827	2021	121	3796	8436
NOV 1976[e]	519	787	552	*54*	442	1701	*133*	178	312	371	16	4878	910	869	2355	120	4254	9132
NOV 1977[e]	523	829	558	*55*	443	1698	*126*	173	336	398	16	4974	939	869	2470	116	4394	9368
NOV 1978[e]	510	908	565	*53*	443	1643	*116*	174	347	394	16	5000	1023	865	2554	129	4571	9571
NOV 1979[e]	513	950	579	*51*	443	1699	*114*	172	342	408	20	5126	1020	839	2673	146	4678	9804
NOV 1980[e]	515	910	551	*52*	400	1637	*113*	120	350	430	20	4933	991	830	2759	134	4714	9647
MAY 1981[e]	516	877	556	*51*	389	1451	*114*	144	355	440	20	4748	970	830	2716	245	4761	9509
NOV 1981[f]	520	882	557	*51*	389	1462	*114*	198	353	455	20	4836	1013	837	2756	261	4867	9703
MAY 1982[f]	522	927	557	*51*	336	1462	*114*	212	353	455	20	4844	1058	848	2796	290	4992	9836
NOV 1982[f]	528	937	561	*51*	336	1464	*114*	212	360	460	20	4878	1058	853	2806	290	5007	9885
MAY 1983[f]	535	937	566	*50*	339	1466	*114*	218	370	470	20	4921	1072	857	2822	290	5041	9962

IND means industrial yarn and monofil, i.e., 500 denier & coarser, with an Instron tenacity of 7 grams per denier or more; CARP means bulked continuous filament yarn for carpets; TEXTILE means yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

g. Olefin includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles, film fiber used for decorative or tying ribbons, etc.

h. Olefin monofil includes the circular and rectangular (ribbon) cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated fiber.

i. Other yarn & monofil is chiefly saran and spandex. Aramid data are included with nylon.

(Continued from page 124)

polyester 2,716 & 2,822 & +4% and olefin+ vinyon 245 & 290 & +18%

SURVEY COVERAGE & DEFINITIONS

The survey figures shown in the upper section of the table on page 125 cover the manmade fibers in all their primary forms, i.e.. filament yarn, monofilaments, polypropylene spunbonded and film fiber are tabulated as filament yarn+monofil, while staple, tow and fiberfill are tabulated as staple+tow. The glass fiber data cover all primary forms of that fiber (yarn and strand, staple yarn and sliver, roving and cake, chopped and milled fiber and mat). The "capacity" to produce waste is not included in the survey data.

Capacity is based on the current and projected "mix" of deniers, filament counts, packages, etc. It is emphasized that all figures refer to current and planned capacity. They are not a production forecast.

Under the survey definitions, all productive equipment which is currently, or is projected to be, in operable condition is counted as capacity, regardless of whether it is actually producing fiber at the time the capacity measurement is taken. On the other hand, equipment which is definitely scheduled for scrapping, or which has been scrapped since the last survey, is excluded from the capacity tabulation. Thus, the capacity data reflect operable, rather than operating, capacity.

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEM	1981					5 MONTHS	
	JAN	FEB	MAR	APR	MAY	1981	1980
RAYON+ACETATE YARN, MONOFIL & STRIPS							
CANADA	318	125	8	1	12	464	201
MEXICO	161	79	163	41	191	635	712
BELGIUM	0	50	25	0	76	151	0
WEST GERMANY	242	290	555	200	639	1926	539
NETHERLANDS	236	593	333	293	262	1717	499
SPAIN	142	0	0	0	41	183	0
UNITED KINGDOM	1	10	0	6	41	58	1176
JAPAN	64	0	0	0	33	97	430
SOUTH KOREA	1	0	0	40	40	81	40
ALL OTHER COUNTRIES[a]	19	4	0	0	39	62	209
TOTAL R+A YARN	**1184**	**1151**	**1084**	**581**	**1374**	**5374**	**3806**
RAYON+ACETATE STAPLE+TOW							
CANADA	469	474	436	451	421	2251	505
AUSTRIA	731	113	166	303	768	2081	298
FRANCE	18	83	39	43	0	183	23
WEST GERMANY	0	0	85	0	0	85	86
SWEDEN	332	234	184	0	187	937	1248
UNITED KINGDOM	226	76	7	157	203	669	943
JAPAN	90	147	74	118	59	488	359
ALL OTHER COUNTRIES[b]	0	12	0	0	36	48	7
TOTAL R+A STAPLE	**1866**	**1139**	**991**	**1072**	**1674**	**6742**	**3489**
NON-CELLULOSIC YARN, MONOFIL & STRIPS							
CANADA	50	98	4	579	415	1146	456
MEXICO	14	20	12	15	44	105	3
FRANCE	94	130	203	210	166	803	214
WEST GERMANY	256	382	275	501	426	1840	1554
ITALY	52	152	35	0	108	347	43
UNITED KINGDOM	57	114	37	3	5	216	130
JAPAN	300	671	357	776	662	2766	5293
SOUTH KOREA	5	36	3	3	43	[illegible]	[illegible]
ALL OTHER COUNTRIES[c]	64	7	23	0	166	[illegible]	[illegible]
TOTAL N.C. YARN	**892**	**1610**	**949**	**2087**	**2035**	[illegible]	**8211**
NON-CELLULOSIC STAPLE+TOW							
CANADA	328	350	449	531	714	2372	1572
MEXICO	190	28	97	510	693	1518	23
BELGIUM	0	130	0	152	70	352	2
FRANCE	44	797	198	508	533	2080	22
WEST GERMANY	541	1963	1625	2233	1644	8006	4723
ITALY	7	813	616	423	717	2576	572
NETHERLANDS	0	39	44	80	35	198	4
POLAND	44	38	0	0	89	171	53
ROMANIA	0	0	132	84	28	244	275
UNITED KINGDOM	208	508	320	173	264	1473	1303
JAPAN	828	335	367	493	343	2366	2919
TAIWAN	324	745	588	875	583	3115	5027
ALL OTHER COUNTRIES[d]	0	69	0	16	1	86	98
TOTAL N.C. STAPLE	**2514**	**5815**	**4438**	**6078**	**5714**	**24557**	**16593**

Other countries supplying 1981 poundages are:

a. Austria 21, Greece 39 & Sweden 2.

b. Italy 48.

c. Austria 64, Denmark 45, Netherlands 59, Portugal 8, Spain 61, Sweden 8 & Switzerland 15.

d. Brazil 1, Hong Kong 1, Ireland 56, Israel 5, Portugal 10 & Switzerland 13.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1 - 1 - 78	1981 JAN	FEB	MAR	APR	MAY	JUN	5 MONTHS 1981	1980
RAYON+ACETATE									
YARN - SINGLES									
TEXTURED	310.0106 & .0206	1	10	0	242	4		257	688
OTHER	310.0130 & .0230[a]	1182	1139	1084	339	1370		5114	3118
MONOFILAMENTS	309.0310 & .0610	1	2	0	0	0		3	0
STRIPS, $1/LB & UNDER	309.2000*	0	0	0	0	--		--	0
SUBTOTAL ABOVE		**1184**	**1151**	**1084**	**581**	**1374**		**5374**	**3806**
STAPLE	309.4320 & .4325	1627	1006	927	887	1442		5889	2286
GROUPED FILAMENTS	309.3010 & .3110	239	133	64	185	232		853	1183
SUBTOTAL ABOVE		**1866**	**1139**	**991**	**1072**	**1674**		**6742**	**3469**
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	37	7	37	0	35		116	151
NON-CELLULOSIC FIBERS									
YARN - SINGLES									
TEXTURED - NYLON	310.0109 & .0209	197	217	215	586	507		1722	238
- POLYESTER	310.0110 & .0210	27	7	22	13	79		148	211
- OTHER	310.0114 & .0214	17	56	8	17	49		147	146
OTHER - NYLON	310.0149 & .0249	204	525	127	542	487		1885	1837
- POLYESTER	310.0150 & .0250	111	411	299	399	482		1702	2716
- OTHER	310.0170 & .0270[b]	170	183	113	188	164		818	651
MONOFILAMENTS	309.0200 & .0330[c]	145	200	149	321	258		1073	2287
STRIPS, OVER $1/LB	309.2100 & .2500*	21	11	16	21	9		78	125
SUBTOTAL ABOVE		**892**	**1610**	**949**	**2087**	**2035**		**7573**	**8211**
STAPLE - NYLON	309.4338	525	2686	1698	2533	2455		9897	671
- POLYESTER	309.4342	132	111	306	661	847		2057	584
- ACRYLIC	309.4345	1069	1594	907	1201	1005		5776	6370
- OLEFIN	309.4346	5	0	304	1	5		315	19
- OTHER	309.4355	469	961	673	1088	852		4043	6395
GROUPED FILAMENTS									
NYLON	309.3030 & .3130	68	50	68	137	155		478	325
POLYESTER	309.3040 & .3140	0	42	0	0	44		86	95
ACRYLIC	309.3050 & .3150	181	255	178	291	195		1100	1768
OTHER	309.3065 & .3165	65	116	302	166	156		805	366
SUBTOTAL ABOVE		**2514**	**5815**	**4436**	**6078**	**5714**		**24557**	**16593**
WASTE, NOT ADVANCED - NYLON	309.6625	1598	1587	2822	1713	2134		9854	5846
- POLYESTER	309.6630	1071	1810	1547	1005	1473		6906	1530
- ACRYLIC	309.6645	289	258	200	236	379		1362	980
- OTHER	309.6660	32	203	263	328	127		953	409
NOILS & GARNETTED FIBERS	309.6000 & .7000*	0	0	0	0	0		0	2
OTHER WASTE, ADVANCED	309.7525 - .7555	119	63	3	35	2		222	261
TOTAL MAN-MADE ABOVE		**9602**	**13643**	**12332**	**13135**	**14947**		**63650**	**41258**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD									
YARN - PLIED									
TEXTURED - CELLULOSIC	310.1106	0	--	24	0	0		24	0
- NON-CELLULOSIC	310.1015[d] & .1109[e]	268	124	213	313	364		1282	577
OTHER - CELLULOSIC	310.1030 & .1135[f]	16	--	0	--	0		16	92
- NON-CELLULOSIC	310.1050 & .1070[g]	20	27	26	44	20		137	218
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	10	25	24	52	37		148	401
- OTHER	310.4015 & .4027[i]	1762	1454	1794	1740	2164		8914	9933
OTHER YARNS - NES, INCL. CHENILLE	310.6029 - .8000	352	109	261	415	609		1746	1003
HANDWORK YARNS & SEWING THREAD	310.9000 - .9140	247	230	188	190	262		1117	1049
SLIVER, TOPS & ROVING	309.9000	388	473	322	262	173		1618	1159
TEXTILE GLASS FIBER	309.2800 & .2900[j]	1156	441	1047	551	643		3838	3327
GRAND TOTAL ABOVE		**13821**	**16526**	**16231**	**16702**	**19219**		**82499**	**59017**

SOURCE: U.S.Census Bureau.

NES - Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & .0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1110 & .1114.

f. Also includes 310.2010 & .2110.

g. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Chiefly roving. Also includes 309.9800 & .9900.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1981 JAN	FEB	MAR	APR	MAY	JUN	YEAR TO DATE[a] 1981	1980
	TOTAL SHIPMENTS[b]							
MAN-MADE FIBER DATA[c]								
YARN+MONOFILAMENTS[d]								
ACETATE	20.9	21.6	21.5	27.1	26.4	25.2	142.7	161.3
NYLON[e] - INDUSTRIAL[f]	34.5	34.4	37.2	35.9	32.3	34.3	208.6	226.5
- LOW DENIER INDUSTRIAL[g]	3.0	3.0	3.8	2.8	2.3	3.3	18.2	18.7
- CARPET	67.1	63.8	65.3	73.4	65.3	61.3	396.2	358.6
- TEXTILE	33.7	36.6	38.4	37.3	36.1	37.3	219.4	232.3
POLYESTER - INDUSTRIAL[f]	25.5	24.3	27.3	29.0	24.7	25.4	156.2	146.3
- LOW DENIER INDUSTRIAL[g]	2.1	2.1	2.5	2.9	2.7	2.5	14.8	16.3
- TEXTILE	94.8	96.0	111.3	123.6	106.4	108.6	640.7	592.7
OLEFIN[h]	56.0	55.8	57.4	54.6	56.1	53.8	333.7	312.3
TOTAL NON-CELLULOSIC ABOVE[i]	316.7	316.0	343.2	359.5	325.9	326.5	1987.8	1903.7
STAPLE+TOW+FIBERFILL[j]								
RAYON	40.9	35.4	37.9	41.4	40.8	37.5	233.9	238.6
NYLON[e]	70.7	67.5	73.9	80.0	74.8	69.2	436.1	320.0
ACRYLIC+MODACRYLIC	59.3	62.2	63.8	65.3	61.9	60.1	372.6	411.8
POLYESTER	208.6	211.1	202.5	243.6	220.0	213.2	1299.0	1242.8
OLEFIN+VINYON	10.8	10.3	11.2	11.7	12.4	11.7	68.1	57.1
TOTAL NON-CELLULOSIC ABOVE	349.4	351.1	351.4	400.6	369.1	354.2	2175.8	2031.7
	END-OF-MONTH STOCK							
YARN+MONOFILAMENTS								
ACETATE	17.0	15.4	15.8	13.5	11.6	12.1	12.1	12.6
NYLON[e] - INDUSTRIAL[f]	37.5	37.9	35.7	36.7	42.5	41.2	41.2	42.8
- LOW DENIER INDUSTRIAL[g]	3.9	3.2	3.1	3.5	3.4	3.2	3.2	4.2
- CARPET	37.7	38.2	38.3	33.4	36.4	39.5	39.5	68.9
- TEXTILE	42.8	43.1	41.8	41.7	43.6	41.5	41.5	59.8
POLYESTER - INDUSTRIAL[f]	23.7	23.1	21.3	20.9	23.7	24.7	24.7	32.5
- LOW DENIER INDUSTRIAL[g]	3.6	3.4	3.5	3.6	3.3	3.6	3.6	2.5
- TEXTILE	100.2	104.1	87.3	67.5	72.5	76.0	76.0	96.9
OLEFIN[h]	63.9	62.3	61.6	60.4	58.3	60.8	60.8	75.7
TOTAL NON-CELLULOSIC ABOVE[i]	313.3	315.3	292.6	267.7	283.7	290.5	290.5	383.3
STAPLE+TOW+FIBERFILL								
RAYON	24.2	25.1	29.3	28.1	25.4	23.7	23.7	37.3
NYLON[e]	33.3	37.4	37.3	33.4	40.1	48.5	48.5	73.3
ACRYLIC+MODACRYLIC	76.5	76.3	74.3	68.5	67.1	63.8	63.8	53.0
POLYESTER	174.2	182.3	190.3	178.5	181.7	184.5	184.5	173.9
OLEFIN+VINYON	16.6	16.9	16.2	15.3	15.2	15.5	15.5	24.1
TOTAL NON-CELLULOSIC ABOVE	300.6	312.9	318.1	295.7	304.1	312.3	312.3	324.3
WOOL & COTTON CONSUMPTION								
APPAREL CLASS WOOL	11.0	12.1	14.6	13.3	11.5		62.5	56.5
CARPET CLASS WOOL	0.8	0.8	0.9	0.1	0.1		2.7	4.1
TOTAL RAW WOOL	11.8	12.9	15.5	13.4	11.6		65.2	60.6
RAW COTTON	217.4	245.4	247.1	238.1	220.6	236.1	1404.7	1609.6

a. Year to date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 13 of the February issue.

e. Data for nylon includes aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 13 of the February issue for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 13 of the February issue.

C8e50-1

Textile ORGANON

FEATURING MAN-MADE FIBERS

VOL. LII • NO. 8

AUGUST
1981

MONTHLY REVIEW

APRIL-JUNE PRODUCTION OF MAN-MADE FIBERS (EXCEPT RAYON YARN, ACETATE STAPLE, SARAN & SPANDEX) WAS 4% ABOVE FIRST QUARTER OUTPUT.

THE RESPECTIVE SECOND AND FIRST QUARTER 1981 PRODUCTION (MILLION POUNDS) AND PERCENT CHANGE FOLLOWS: RAYON STAPLE 114.1 & 116.3 & -2%; ACETATE YARN 75.0 & 61.4 & +22%; NON-CELLULOSIC FIBERS 2,127.1 & 2,062.2 & +3% AND TEXTILE GLASS FIBER 260.2 & 237.1 & +9½%. PG 131

NON-CELLULOSIC SHIPMENTS DECLINE 5% IN JULY

July shipments of non-cellulosic fibers (except saran and spandex) totaled 643.5 million pounds, a 5% decrease from the 677.7 million pounds delivered in June but 14% above July 1980 shipments of 565.7 million pounds. However, for the first seven months of 1981, shipments totaled 4,804.3 million pounds, an increase of 6½% over the 4,501.1 million pounds shipped during the corresponding 1980 period.

Non-cellulosic yarn+monofilament deliveries for July (except saran and spandex) were 306.1 million pounds, 5% less than the 324.8 million pounds shipped in June but 13% more than the 270.1 million pounds delivered during July last year. For the January-July period, however, 1981 shipments, at 2,293.8 million pounds, were 5½% above 1980 deliveries.

Shipments of non-cellulosic staple+tow for July totaled 337.4 million pounds, 4½% less than June deliveries but 14% more than the 295.6 million pounds shipped during July 1980. For the year to date, shipments totaled 2,510.5 million pounds, 8% above the 2,327.3 million pounds delivered during January-July 1980.

JULY AND JUNE SHIPMENTS COMPARED

Following is a comparison of total July shipments of non-cellulosic yarn+monofilaments (except saran and spandex) with June (million pounds) and the percentage change, respectively: nylon industrial 31.5 & 34.3 & -8%; low denier industrial 2.5 & 3.3 & -24%; carpet 55.9 & 61.3 & -9%; textile 31.7 & 37.3 & -15%; polyester industrial 26.9 & 25.5 & +5½%; low denier industrial 2.5 & 2.5 & unchanged; textile 102.1 & 108.6 & -6%; olefin 53.0 & 52.0 & +2% and the total of these fibers 306.1 & 324.8 & -5%.

For non-cellulosic staple+tow+fiberfill, the corresponding data are: nylon 62.2 & 69.2 & -10%; acrylic+modacrylic 51.7 & 60.1 & -14%; polyester 212.8 & 211.9 & +½%: olefin+vinyon 10.7 & 11.7 & -8½% and the total 337.4 & 352.9 & -4½%.

CELLULOSIC SHIPMENTS INCREASE 2% IN JULY

July shipments of acetate yarn and rayon staple+tow totaled 64.0 million pounds, an increase of 2% over the 62.7 million pounds delivered in June, but were 12% above the 57.1 million pounds shipped during July 1980. January-July deliveries, at 440.6 million pounds, were 3½% less than the 457.0 million pounds shipped during the corresponding 1980 period.

July deliveries of acetate yarn+monofilaments declined 2½% to 24.6 million pounds from June shipments of 25.2 million pounds and deliveries for the first seven months of 1981 were 10% less than the corresponding 1980 period. For rayon staple+tow, July shipments

BEST AVAILABLE COPY

increased 5% to 39.4 million pounds from June, and January-July 1981 deliveries were 1% above the same 1980 period.

END-OF-MONTH STOCKS INCREASE 8½%

Stocks of non-cellulosic fibers (except saran and spandex), as of July 31st, stood at 657.0 million pounds, an increase of 8½% over June's ending stocks of 604.8 million pounds. Based on July shipment levels of 643.5 million pounds, this represents just over a month's supply. The biggest increases occurred in nylon carpet yarn, which increased 21% to 47.9 million pounds and nylon staple+tow (used mainly in carpets), which increased 26% to 61.0 million pounds. Polyester textile yarn stocks increased 18% to stand at 89.4 million pounds as of the end of July.

JULY COTTON CONSUMPTION LOWEST SINCE JULY 1935

U.S. domestic cotton consumption in July, at 191.1 million pounds (preliminary), was the lowest monthly total since July 1935 when 190.5 million pounds were consumed. The July 1981 consumption figure was slightly below the 192.1 million pounds consumed in July 1978. January-July 1981 cotton consumption totaled 1,595.8 million pounds, 12% less than that consumed during the corresponding 1980 period.

U.S. COTTON CROP ESTIMATE

Based on conditions as of August first, the Crop Reporting Board estimated the 1981 (season 1981-1982) cotton crop at 14,789,300 bales of 480 pounds net weight. This would be 3,667,200 bales, or 33% more than last year's crop of 11,122,100 bales and 2,473,900 bales larger than the average outturn of 12,315,400 bales for the preceding five years. The cotton acreage for harvest was estimated to be 14,305,500 acres as against 13,214,800 acres in 1980 and an average of 12,519,400 acres for the 5-year period from 1976 through 1980. The estimated yield of 515 pounds per acre compares with 404 pounds per acre last year and an average of 472 pounds per acre in the past five years.

NEW ORGANON FORMAT

The ORGANON will have a new look commencing with the September issue. The new format is part of a continuing effort to identify the family of publications of the Textile Economics Bureau, Inc., including the new "Man-Made Fiber Review" and the "Man-Made Fiber Producers' Handbook."

CONTENTS

- Monthly Review 129
  - U.S. Cotton Crop Estimate 130
  - New ORGANON Format 130
  - "Man-Made Fiber Review" 131
  - Book Review 131
- Quarterly Man-Made Fiber Data 132-133
  - Shipments by Trade or End Use 134-135
- Broad Weaving Industry Data 136-139
- Imports, Exports & Balance 140
- U.S. Fiber Exports 141
- Monthly Imports for Consumption 142
- Imports by Country of Origin 143
- U.S. Textile Industry Data 144

Textile ORGANON

CHARLES A. WHITEHEAD, *EDITOR & PUBLISHER*
MICHAEL R. KEMP, *MANAGING EDITOR*
DOROTHY A. DRISCOLL, *CIRCULATION MGR.*

PUBLISHED BY
TEXTILE ECONOMICS BUREAU, INC.
101 EISENHOWER PARKWAY, ROSELAND, NJ 07068

An arrangement of authentic market data, especially important to the United States Man-Made Fiber industry, published monthly in the interest of good business.

Copyright 1981 by Textile Economics Bureau, Inc. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription rates as of July 1981 (payable in U.S. dollars or equivalent, with order):

	U.S.A.	OTHER
Annually (1 yr. only)	$125.00	$187.50
Schools & Non-Profit	25.00	25.00
Single Issues:		
June	12.50	18.75
November	12.50	18.75
All Others	10.00	15.00

All issues will be sent to U.S. subscribers by first class mail and those to all other countries by airmail.

Although its logo and typeface will be changing, the general content of the ORGANON will continue. We will strive to bring you the latest statistical information on the man-made fiber industry, both at home and abroad.

"MAN-MADE FIBER REVIEW" DEBUT IN SEPTEMBER

A new publication of the Textile Economics Bureau, Inc., will make its debut in September.

Designed to provide up-to-the-minute coverage of the U.S. man-made fiber industry, the new monthly will be published on or about the 17th of each month and feature the monthly data familiar to subscribers of the "Man-Made Fiber Producers' Handbook."

The four-page publication will present more detailed information than generally found in the ORGANON's familiar "back page." This will include monthly data on production, exports, domestic shipments by denier, etc.

The annual subscription rate is $250.

ORGANON readers are invited to request a copy of the Preview Issue at no charge.

BOOK REVIEW

ILLUSTRATED GUIDE TO TEXTILES

Marjory L. Joseph and Audrey Gieseking-Williams. Burgess Publishing Company, 7108 Ohms Lane, Minneapolis, MN 55435. 160 pages. 1981. $10.95.

As a supplement to any basic textiles text, this manual is designed to aid students in an understanding of the numerous textile products available on the consumer market.

Divided into six chapters, the first introduces the five basic components of the textile manufacturing process: fibers, yarns, fabric structure, coloring procedures and finishing techniques. Each of the ensuing chapters offers an overview of one of the specific components. Included are exercises for the examination of actual fabric samples.

The manual offers an opportunity for students to utilize a framework for the study and evaluation of textiles, their applications and characteristics.

Included is a rather extensive bibliography of textile textbooks published in the U.S. over the past 45 years.

SECOND QUARTER PRODUCTION INCREASES 4%

Production of man-made fibers (except acetate staple+tow and rayon, saran & spandex yarn+monofilaments) totaled 2,576.4 million pounds in the April-June quarter this year, an increase of 99.4 million pounds or 4% above the 2,477.0 million pounds produced during the first quarter of 1981. Second quarter 1981 output was 327.6 million pounds, or 15% above the 2,248.8 million pounds produced during the second quarter of 1980. April-June production of non-cellulosic staple+tow (1,116.0 million pounds) and olefin+vinyon staple+tow (35.1 million pounds) were at new record high levels.

Non-cellulosic yarn+monofilament production (except saran and spandex) totaled 1,011.1 million pounds during the second quarter, 3½% above first quarter output of 979.2 million pounds and 14% above that produced during the corresponding 1980 quarter. April-June 1981 output of non-cellulosic staple+tow was a record 1,116.0 million pounds, 3% above first quarter 1981 and 19% above the 939.5 million pounds produced during the second quarter of 1980. Nylon+aramid yarn+monofilaments and acrylic+modacrylic staple+tow were the only non-cellulosic fibers to show a production decline between first and second quarter 1981.

Second quarter 1981 production of acetate yarn+monofilaments totaled 75.0 million pounds, 22% above the previous quarter's level of 61.4 million pounds, but 8½% below the 82.1 million pounds produced during the April-June 1980 quarter. Rayon staple+tow production during the second quarter of 1981 declined 2% to 114.1 million pounds from the January-March level, but was ½% above the 113.4 million pounds produced during the corresponding 1980 quarter.

Output of textile glass fiber during the latest quarter totaled 260.2 million pounds, an increase of 9½% over first quarter 1981 production of 237.1 million pounds and 16% above the output level of the corresponding 1980 quarter.

SECOND QUARTER SHIPMENTS UP 7%

Shipments of man-made fibers (except acetate staple+tow and rayon, saran & spandex yarn+monofilaments) totaled 2,612.7 million pounds during the second quarter this year, an increase of 7% over the previous quarter's deliveries of 2,438.2 million pounds and 17% above the corresponding 1980 quarter.

April-June 1981 deliveries of non-cellulosic yarn+monofilaments (except saran and spandex) were 1,011.8 million pounds, 3½% more than the 975.9 million pounds shipped during the first quarter and 14% more than deliveries during the second quarter of 1980. Non-cellulosic staple+tow shipments during the latest quarter totaled a record 1,121.2 million pounds, 6½% more than first quarter 1981 and 17% above the same 1980 quarter.

QUARTERLY MAN-MADE FIBER DATA

MILLION POUNDS

ITEM	1979					1980					1981				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
	YARN+MONOFILAMENTS[a]														
ACETATE															
PRODUCTION	78.2	78.4	78.8	81.2	316.6	80.0	82.1	77.5	68.9	308.5	61.4	75.0			
SHIPMENTS - DOMESTIC	71.8	72.2	72.0	72.4	288.4	72.9	71.9	64.7	59.7	269.2	53.4	69.9			
- EXPORT	9.4	7.3	6.7	8.4	31.8	7.8	8.7	7.7	8.5	32.7	10.6	8.8			
- TOTAL	81.2	79.5	78.7	80.8	320.2	80.7	80.6	72.4	66.2	301.9	64.0	78.7			
ENDING STOCK	12.4	11.3	11.4	11.8		11.1	12.6	17.7	18.4		15.8	12.1			
NYLON+ARAMID															
PRODUCTION	442.5	440.9	439.0	459.2	1781.6	453.1	398.3	331.9	447.8	1631.1	435.1	428.0			
SHIPMENTS - DOMESTIC	405.3	424.0	400.1	401.9	1631.3	416.0	350.9	347.7	424.3	1538.9	380.5	386.1			
- EXPORT	35.1	34.9	37.1	39.3	146.4	35.2	34.0	38.8	40.0	148.0	40.3	35.5			
- TOTAL	440.4	458.9	437.2	441.2	1777.7	451.2	384.9	386.5	464.3	1686.9	420.8	421.6			
ENDING STOCK	158.6	140.6	142.4	160.4		162.3	175.7	121.1	104.6		118.9	125.3			
OLEFIN[b]															
PRODUCTION	155.1	161.4	157.0	165.6	639.1	168.1	152.8	146.8	164.5	632.2	163.9	165.0			
SHIPMENTS - DOMESTIC	150.6	160.3	154.0	159.3	624.2	156.9	143.9	147.3	163.6	611.7	164.3	158.6			
- EXPORT	5.6	4.6	5.4	5.5	21.1	6.2	5.3	4.4	4.8	20.7	4.9	5.7			
- TOTAL	156.2	164.9	159.4	164.8	645.3	163.1	149.2	151.7	168.4	632.4	169.2	164.3			
ENDING STOCK	72.2	68.7	66.3	67.1		72.1	75.7	70.8	66.9		61.6	62.3			
POLYESTER															
PRODUCTION	459.6	457.3	399.9	398.8	1715.6	396.2	338.7	337.9	389.2	1462.0	380.2	418.1			
SHIPMENTS - DOMESTIC	406.1	402.8	352.0	364.2	1525.1	369.2	310.7	320.4	363.1	1363.4	355.6	392.7			
- EXPORT	31.6	35.6	44.4	40.2	151.8	34.4	41.0	28.6	29.1	133.1	30.3	33.2			
- TOTAL	437.7	438.4	396.4	404.4	1676.9	403.6	351.7	349.0	392.2	1496.5	385.9	425.9			
ENDING STOCK	135.5	154.4	157.9	152.3		144.9	131.9	120.8	117.8		112.1	104.3			
TOTAL NON-CELLULOSIC ABOVE															
PRODUCTION	1057.2	1059.6	995.9	1023.6	4136.3	1017.4	889.8	816.6	1001.5	3725.3	979.2	1011.1			
SHIPMENTS - DOMESTIC	962.0	987.1	906.1	925.4	3780.6	942.1	805.5	815.4	951.0	3514.0	900.4	937.4			
- EXPORT	72.3	75.1	86.9	85.0	319.3	75.8	80.3	71.8	73.9	301.8	75.5	74.4			
- TOTAL	1034.3	1062.2	993.0	1010.4	4099.9	1017.9	885.8	887.2	1024.9	3815.8	975.9	1011.8			
ENDING STOCK	366.3	363.7	366.6	379.8		379.3	383.3	312.7	289.3		292.6	291.9			
DOMESTIC SHIPMENTS	962.0	987.1	906.1	925.4	3780.6	942.1	805.5	815.4	951.0	3514.0	900.4	937.4			
IMPORTS - TEXTURED YARN[c]	1.1	1.0	1.4	0.9	4.4	0.6	0.9	1.9	1.7	5.1	1.4	2.7			
- OTHER YARN[c]	5.2	4.5	3.0	2.6	15.3	3.1	3.7	3.0	2.3	12.1	2.2	3.1			
- MONOFILAMENTS	0.5	0.5	0.5	0.9	2.4	1.4	1.3	0.8	0.5	4.0	0.5	0.8			
TOTAL IMPORTS	6.8	6.0	4.9	4.4	22.1	5.1	5.9	5.7	4.5	21.2	4.1	6.6			
TOTAL AVAILABLE	968.8	993.1	911.0	929.8	3802.7	947.2	811.4	821.1	955.5	3535.2	904.5	944.0			
	TEXTILE GLASS FIBER														
PRODUCTION	232.1	278.8	263.7	239.8	1014.4	242.3	224.0	183.3	217.7	867.3	237.1	260.2			
SHIPMENTS - DOMESTIC	228.0	260.3	207.1	216.8	912.2	249.7	181.2	182.4	253.8	867.1	222.4	273.8			
- EXPORT	9.2	11.5	13.5	14.1	48.3	15.2	13.8	10.1	9.5	48.6	9.8	7.5			
- TOTAL	237.2	271.8	220.6	230.9	960.5	264.9	195.0	192.5	263.3	915.7	232.2	281.3			
ENDING STOCK	93.5	100.5	143.6	152.5		129.9	158.9	149.7	104.1		109.0	87.9			
IMPORTS	2.4	3.3	2.7	2.0	10.4	2.0	2.0	1.7	1.6	7.3	2.6	2.7			
TOTAL AVAILABLE	230.4	263.6	209.8	218.8	922.6	251.7	183.2	184.1	255.4	874.4	225.0	276.5			

FOOTNOTES FOR TABLE ABOVE & OPPOSITE

"Imports" are imports for consumption, as reported by the U.S. Census Bureau.

a. Data for rayon and "Other" non-cellulosic yarns (chiefly saran & spandex) are available annually only; see pages 20 & 21 of the February ORGANON for further details on these yarns.

b. Olefin Yarn+Monofilament data also include film fiber as well as spunbonded polypropylene.

c. Yarn imports include singles and plied.

d. Acetate staple+tow data are available annually only; see pages 20 & 21 of the February ORGANON for further details.

e. These figures are composites of the nylon, acrylic+modacrylic, polyester and olefin staple imports, i.e., Commodity Numbers 309.4338, .4342, .4345 & .4346.

Second quarter 1981 shipments of acetate yarn+monofilaments totaled 78.7 million pounds, an increase of 23% over the previous quarter, but 2½% less than deliveries during the April-June quarter last year. Rayon staple+tow shipments during the latest quarter stood at 119.7 million pounds, 5% more than first quarter 1981 and 8½% above the corresponding 1980 quarter.

(Continued on page 134)

QUARTERLY MAN-MADE FIBER DATA *(Continued)*

MILLION POUNDS

ITEM	1979					1980					1981				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
							STAPLE+TOW^d								
RAYON															
PRODUCTION	142.7	142.7	128.1	135.9	549.4	126.9	113.4	101.0	102.0	443.3	116.3	114.1			
SHIPMENTS - DOMESTIC	117.6	110.3	105.9	108.6	442.4	114.2	92.6	87.3	96.6	390.7	100.2	104.5			
- EXPORT	26.3	22.5	27.8	23.5	100.1	14.0	17.8	16.2	[illegible]	61.0	14.0	15.2			
- TOTAL	143.9	132.8	133.7	132.1	542.5	128.2	110.4	103.5	[illegible]	451.7	114.2	119.7			
ENDING STOCK	27.5	37.4	31.8	35.6		34.3	37.3	34.8	27.2		29.3	23.7			
DOMESTIC SHIPMENTS	117.6	110.3	105.9	108.6	442.4	114.2	92.6	87.3	96.6	390.7	100.2	104.5			
IMPORTS FOR CONSUMPTION															
STAPLE	6.3	4.3	2.0	1.3	13.9	1.4	1.3	2.4	2.9	8.0	3.6	3.3			
GROUPED FILAMENTS	0.5	0.9	0.7	0.5	2.6	0.7	0.7	0.3	0.6	2.3	0.4	0.7			
TOTAL IMPORTS	6.8	5.2	2.7	1.8	16.5	2.1	2.0	2.7	3.5	10.3	4.0	4.0			
TOTAL AVAILABLE	124.4	115.5	108.6	110.4	458.9	116.3	94.6	90.0	100.1	401.0	104.2	108.5			
NYLON+ARAMID															
PRODUCTION	233.4	236.9	233.6	234.9	938.8	214.0	128.3	161.2	223.1	726.6	214.9	235.2			
SHIPMENTS - DOMESTIC	230.1	235.9	227.8	219.4	913.2	171.9	133.2	187.6	218.5	711.2	204.8	215.9			
- EXPORT	7.2	7.4	8.4	8.3	31.3	8.8	6.1	7.7	9.3	31.9	7.3	8.1			
- TOTAL	237.3	243.3	236.2	227.7	944.5	180.7	139.3	195.3	227.8	743.1	212.1	224.0			
ENDING STOCK	52.8	46.4	43.8	51.0		84.3	73.3	39.2	34.5		37.3	48.5			
IMPORTS	0.8	0.4	0.7	0.5	2.4	0.3	0.5	0.3	0.6	1.7	4.9	6.6			
TOTAL AVAILABLE	230.9	236.3	228.5	219.9	915.6	172.2	133.7	187.9	219.1	712.9	209.7	222.5			
ACRYLIC+MODACRYLIC															
PRODUCTION	187.3	192.4	184.2	197.2	761.1	206.4	197.7	182.1	193.0	779.2	190.8	176.8			
SHIPMENTS - DOMESTIC	134.7	146.3	125.6	140.0	546.6	161.6	155.7	124.9	143.1	585.3	130.2	137.0			
- EXPORT	52.2	56.3	61.0	54.1	223.6	50.6	43.9	47.1	44.2	185.8	55.1	50.3			
- TOTAL	186.9	202.6	186.6	194.1	770.2	212.2	199.6	172.0	187.3	771.1	185.3	187.3			
ENDING STOCK	70.2	60.0	57.6	60.7		54.9	53.0	63.1	68.8		74.3	63.8			
IMPORTS	2.8	4.3	3.5	2.4	13.0	3.4	4.3	2.6	3.0	13.3	3.6	2.7			
TOTAL AVAILABLE	137.5	150.6	129.1	142.4	559.6	165.0	160.0	127.5	146.1	598.6	133.8	139.7			
OLEFIN+VINYON															
PRODUCTION	29.1	32.3	28.2	30.6	120.2	30.7	30.3	26.5	28.2	115.7	31.3	35.1			
SHIPMENTS - DOMESTIC	30.1	31.4	28.0	29.8	119.3	28.9	26.3	27.0	32.8	115.0	31.9	35.5			
- EXPORT	0.1	0.3	1.4	1.7	3.5	1.4	0.5	1.0	0.8	3.7	0.4	0.3			
- TOTAL	30.2	31.7	29.4	31.5	122.8	30.3	26.8	28.0	33.6	118.7	32.3	35.8			
ENDING STOCK	21.7	22.3	21.1	20.2		20.6	24.1	22.6	17.2		16.2	15.5			
POLYESTER															
PRODUCTION	606.6	605.5	618.2	631.9	2462.2	654.3	583.2	589.6	699.6	2526.7	646.0	668.9			
SHIPMENTS - DOMESTIC	537.6	543.4	522.8	530.6	2134.4	563.1	483.8	466.8	557.3	2071.0	493.2	525.9			
- EXPORT	85.1	59.8	82.2	107.7	334.8	84.8	111.1	136.2	136.3	468.4	129.0	148.2			
- TOTAL	622.7	603.2	605.0	638.3	2469.2	647.9	594.9	603.0	693.6	2539.4	622.2	674.1			
ENDING STOCK	170.1	172.4	185.6	179.2		185.6	173.9	160.5	166.5		190.3	185.1			
IMPORTS	0.8	1.1	0.5	0.7	3.1	0.4	0.3	0.3	0.3	1.3	0.5	1.9			
TOTAL AVAILABLE	538.4	544.5	523.3	531.3	2137.5	563.5	484.1	467.1	557.6	2072.3	493.7	527.8			
TOTAL NON-CELLULOSIC															
PRODUCTION	1056.4	1067.1	1064.2	1094.6	4282.3	1105.4	939.5	959.4	1143.9	4148.2	1083.0	1116.0			
SHIPMENTS - DOMESTIC	932.5	957.0	904.2	919.8	3713.5	925.5	799.0	806.3	951.7	3482.5	860.1	914.3			
- EXPORT	144.6	123.8	153.0	171.8	593.2	145.6	161.6	192.0	190.6	689.8	191.8	206.9			
- TOTAL	1077.1	1080.8	1057.2	1091.6	4306.7	1071.1	960.6	998.3	1142.3	4172.3	1051.9	1121.2			
ENDING STOCK	314.8	301.1	308.1	311.1		345.4	324.3	285.4	287.0		318.1	312.9			
DOMESTIC SHIPMENTS	932.5	957.0	904.2	919.8	3713.5	925.5	799.0	806.3	951.7	3482.5	860.1	914.3			
IMPORTS FOR CONSUMPTION															
3 FIBERS ABOVE^e	4.4	5.8	4.7	3.6	18.5	4.1	5.2	3.3	3.9	16.5	9.0	11.2			
OTHER N.C. STAPLE	4.2	3.8	3.9	3.9	15.8	3.9	3.4	3.1	4.2	14.6	2.4	3.3			
GROUPED FILAMENTS	1.0	1.3	1.3	1.4	5.0	1.6	1.3	0.6	1.0	4.5	1.3	2.0			
TOTAL IMPORTS	9.6	10.9	9.9	8.9	39.3	9.6	9.9	7.0	9.1	35.6	12.7	16.5			
TOTAL AVAILABLE	942.1	967.9	914.1	928.7	3752.8	935.1	808.9	813.3	960.8	3518.1	872.8	930.8			

5

FILAMENT YARN DOMESTIC SHIPMENTS[a]

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1980				1981			
		1977	1978	1979	1980	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
		(A) ACETATE	(N) NYLON+ARAMID		(P) POLYESTER		(O) OLEFIN						
HOSIERY[b]	N	88.8	99.0	106.3	106.3	27.2	26.7	25.3	27.1	27.2	27.2		
OTHER CIRCULAR KNIT[c]	N	68.9	65.5	58.9	56.6	14.3	13.0	13.2	16.1	12.3	13.6		
	P	738.7	635.5	615.4	495.7	145.8	108.7	114.4	126.8	93.7	98.0		
	A	1.6	1.9	4.5	3.2	1.0	0.8	0.7	0.7	0.7	2.1		
FLAT KNIT	A	124.2	138.3	146.9	144.9	37.4	40.0	35.9	31.6	26.7	37.2		
	N	165.6	196.1	202.6	176.3	50.3	42.3	35.2	48.5	43.3	44.5		
	P	85.9	81.7	89.0	83.8	23.2	17.7	19.8	23.1	23.6	24.4		
CARPET FACE	N	617.8	677.8	732.5	714.5	183.5	157.5	169.3	204.2	184.0	186.9		
	O	67.0	78.9	85.3	89.5	24.3	20.9	20.4	23.9	21.5	22.1		
CARPET BACKING[d]	O	196.4	213.7	220.7	197.8	52.5	44.4	49.7	51.2	52.7	50.7		
OTHER BROAD WOVEN[e]	A	126.2	125.9	129.2	110.5	32.7	27.4	25.6	24.8	23.9	27.7		
	N	87.7	95.0	102.7	94.3	26.9	25.9	18.7	22.8	21.4	21.3		
	P	315.9	411.5	387.2	405.5	102.9	97.1	96.6	108.9	103.5	138.4		
	O	162.9	158.7	171.4	186.3	42.6	43.3	47.1	53.3	50.3	50.2		
NARROW WOVEN[f]	A	5.9	7.0	5.9	8.7	1.5	3.2	2.0	2.0	1.6	2.2		
	N	38.0	40.6	37.2	31.4	9.3	7.3	7.6	7.2	9.7	7.7		
	P	24.0	29.1	30.5	28.1	8.1	5.6	7.4	7.0	6.4	7.5		
	O	10.3	11.1	11.8	12.3	3.2	3.0	3.1	3.0	3.2	3.2		
TIRES, INCL. CHAFER	N	244.1	267.6	285.3	209.2	69.4	40.2	45.1	54.5	51.5	52.7		
	P	258.0	253.4	227.4	161.0	45.6	31.2	37.0	47.2	43.3	44.1		
OTHER RUBBER INDUSTRY[g]	N	22.5	25.7	28.7	22.3	6.1	4.9	4.8	6.5	7.2	6.4		
	P	30.1	32.0	35.8	30.2	10.0	6.1	6.7	7.4	7.4	8.1		
ROPE, CORDAGE & FISHLINE	N	28.1	33.4	38.2	33.0	9.6	7.6	7.7	8.1	8.2	7.9		
	P	10.4	10.6	13.6	13.1	3.0	3.6	3.0	3.5	4.6	3.7		
	O	74.4	82.4	95.3	84.4	20.7	23.4	18.8	21.5	28.5	22.8		
ALL OTHER[h]	A	1.5	1.5	1.9	1.9	0.3	0.5	0.5	0.6	0.5	0.7		
	N	34.7	38.4	38.9	95.0	19.4	25.5	20.8	29.3	15.7	17.9		
	P	47.6	53.8	126.2	146.0	30.6	40.7	35.5	39.2	73.1	69.8		
	O	28.6	34.9	39.7	41.4	13.6	8.9	8.2	10.7	8.1	9.6		
TOTAL DOMESTIC ABOVE	A	259.4	274.6	288.4	269.2	72.9	71.9	64.7	59.7	53.4	69.9		
	N	1396.2	1539.1	1631.3	1538.9	416.0	350.9	347.7	424.3	380.5	386.1		
	P	1510.6	1507.6	1525.1	1363.4	369.2	310.7	320.4	363.1	355.6	394.0		
	O	539.6	579.7	624.2	611.7	156.9	143.9	147.3	163.6	164.3	158.6		
TOTAL DOMESTIC ABOVE		**3705.8**	**3901.0**	**4069.0**	**3783.2**	**1015.0**	**877.4**	**880.1**	**1010.7**	**953.8**	**1008.6**		
ALSO DIVIDED AS													
APPAREL		1634.4	1671.2	1604.5	1530.4	407.9	354.3	365.1	403.1	385.0	439.6		
HOME FURNISHINGS		1090.5	1171.9	1274.6	1212.7	318.6	274.0	285.5	334.6	308.8	310.9		
INDUSTRIAL		980.9	1057.9	1189.9	1040.1	288.5	249.1	229.5	273.0	260.0	258.1		
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET)[i]													
ACETATE		1.0	1.3	+	0	0	0	0	0	0	0		
NYLON		158.5	161.6	166.8	167.4	40.4	41.6	39.4	46.0	39.0	39.8		
POLYESTER		1043.1	1018.7	1015.3	942.0	249.1	216.4	225.0	251.5	248.3	277.5		
OLEFIN		53.8	52.3	46.5	40.9	11.0	9.0	8.1	12.8	9.7	8.9		

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small poundages of polyester are included in All Other.

c. Small poundages of olefin are included in All Other.

d. Small poundages of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc. The olefin poundages include other home furnishings applications only, i.e., industrial applications are in All Other.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Small poundages of olefin are included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin poundages include sliver knit backing. Also includes indirect exports starting 1st Quarter 1980.

i. These poundages are included in the Total Domestic area above.

Textile glass fiber deliveries during the April-June quarter of 1981 totaled a record 281.3 million pounds, an increase of 21% from first quarter shipments of 232.2 million pounds and 44% above second quarter 1980 deliveries of 195.0 million pounds.

SHIPMENTS BY PRIMARY TRADE OR END USE

The tables above and opposite present a breakdown of domestic filament yarn and staple+tow shipments

STAPLE & TOW DOMESTIC SHIPMENTS

MILLION POUNDS

(R) RAYON (N) NYLON+ARAMID (A) ACRYLIC+MODACRYLIC (P) POLYESTER (O) OLEFIN

ITEM		ANNUAL DATA				QUARTERLY DATA							
						1980				1981			
		1977	1978	1979	1980	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
HOSIERY, SWEATERS & CRAFT YARNS[a]	A	262.3	241.8	238.8	275.7	75.8	71.9	56.2	71.8	63.9	70.6		
	NPR	15.0	24.7	21.3	11.6	4.1	3.3	1.9	2.3	4.2	1.9		
PILE FABRICS[b]	A	87.6	82.4	65.1	60.4	17.5	18.7	11.7	12.5	15.7	14.3		
	P	25.4	15.1	17.8	19.7	6.4	4.9	4.1	4.3	4.0	4.5		
OTHER CIRCULAR+FLAT KNIT[c]	R	11.6	10.8	11.7	9.8	3.8	1.8	2.4	1.8	2.7	3.3		
	A	111.8	93.1	98.8	125.0	34.8	35.1	27.1	28.0	23.4	26.2		
	P	204.5	223.7	278.1	293.4	82.9	70.2	64.3	81.0	76.8	78.7		
BLANKETS[b]	A	50.2	55.2	45.5	42.2	10.7	11.0	11.9	8.6	7.5	6.2		
	P	15.6	14.9	13.2	17.7	4.2	4.4	4.5	4.6	3.2	4.1		
OTHER BROAD WOVEN	R	223.0	245.9	233.2	201.6	57.0	43.7	48.0	52.9	56.5	58.2		
	N	55.4	52.6	59.2	53.0	15.6	9.9	10.2	17.3	12.4	14.2		
	A	27.2	28.6	42.1	42.3	11.3	10.3	9.1	11.6	9.1	8.5		
	P	1105.8	1114.7	1171.0	1204.1	324.1	287.2	268.5	324.3	268.4	296.7		
	O	7.3	10.6	17.0	17.3	4.0	4.3	3.7	5.3	5.0	5.7		
CARPET FACE YARNS	R	0.1	+	+	+	+	+	+	+	+	+		
	N	715.0	798.5	828.0	631.5	149.4	115.8	171.3	195.0	185.7	192.7		
	A	72.7	62.8	48.1	Included in All Other								
	P	205.3	200.8	192.4	119.9	32.2	25.1	23.9	38.7	27.0	37.6		
	O	38.7	46.0	64.7	61.6	14.9	14.7	14.6	17.4	16.1	17.7		
FIBERFILL[d]	P	176.8	198.2	239.6	205.1	55.5	44.6	52.7	52.3	57.1	54.0		
FLOCK	NP	5.7	8.2	10.7	10.8	3.4	2.5	2.1	2.8	3.8	4.2		
	R	6.4	4.7	5.1	5.1	1.2	1.4	1.1	1.4	0.8	1.3		
NONWOVENS[e,f]	R	174.3	166.2	160.3	147.3	45.1	39.0	29.6	33.6	32.6	34.9		
	N	4.1	4.3	3.8	3.2	0.9	0.7	0.8	0.8	1.1	1.0		
	P	57.4	98.5	153.6	150.3	38.9	34.8	38.3	38.3	36.1	32.8		
	VINYON+O	30.6	28.6	36.7	34.6	9.4	7.1	8.4	9.7	9.6	11.3		
ALL OTHER	R	26.1	29.5	30.9	26.2	7.0	6.6	6.1	6.5	7.1	6.5		
	N	9.1	11.1	10.8	12.2	2.6	4.1	2.9	2.6	2.3	3.8		
	A	8.0	7.7	8.2	39.7	11.5	8.7	8.9	10.6	10.6	11.2		
	P	80.3	80.7	49.3	45.4	14.9	9.6	9.0	11.9	16.4	15.9		
	VINYON+O	4.7	4.8	0.9	1.5	0.6	0.2	0.3	0.4	1.2	0.8		
TOTAL DOMESTIC ABOVE	R	444.9	459.2	442.4	390.7	114.2	92.6	87.3	96.6	100.2	104.5		
	N	791.7	876.4	913.2	711.2	171.9	133.2	187.6	218.5	204.8	215.9		
	A	619.8	571.6	546.6	585.3	161.6	155.7	124.9	143.1	130.2	137.0		
	P	1880.3	1967.5	2134.4	2071.0	563.1	483.8	466.8	557.3	493.2	525.9		
	VINYON+O	81.3	90.0	119.3	115.0	28.9	26.3	27.0	32.8	31.9	35.5		
TOTAL DOMESTIC ABOVE		**3818.0**	**3964.7**	**4155.9**	**3873.2**	**1039.7**	**891.6**	**893.6**	**1048.3**	**960.3**	**1018.8**		
ALSO DIVIDED AS													
APPAREL		1551.7	1493.4	1548.6	1664.4	460.7	409.1	363.3	431.3	372.9	397.9		
HOME FURNISHINGS		1602.2	1714.8	1759.1	1474.2	375.1	311.9	358.4	428.8	394.9	417.0		
INDUSTRIAL		664.1	756.5	848.2	734.6	203.9	170.6	171.9	188.2	192.5	203.9		

a. Olefin poundages are included in All Other.
b. Rayon and nylon poundages are included in All Other.
c. Nylon poundages are included in All Other.
d. Rayon and acrylic poundages are included in All Other.
e. Wet & dry laid and needled batts only.
f. Acrylic poundages are included in All Other.

by primary trade or major end use for the most recent periods.

Domestic shipments of filament yarn (except rayon, saran and spandex) totaled 1,008.6 million pounds during the latest quarter, an increase of 5½% from the previous quarter and 15% above the corresponding 1980 quarter. Significant increases in second quarter shipments were shown by acetate yarn deliveries to the flat knit trades (up 39% to 37.2 million pounds) and polyester yarn to the broad woven trades (up 34% to 138.4 million pounds). On the other hand, shipments of olefin to the rope and cordage industry declined 20% to 22.8 million pounds. Deliveries to the apparel and home furnishings industries increased during the latest quarter, whereas shipments to the industrial area declined.

Staple+tow shipments (except acetate) to the domestic industries increased 6% during the April-June 1981 quarter to 1,018.8 million pounds from the first quarter level. Second quarter 1981 deliveries were 14% above April-June 1980 shipments of 891.6 million pounds. Second quarter 1981 increases were registered by acrylic+modacrylic staple+tow to the hosiery, sweater

YARN CONSUMED IN BROAD WOVEN FABRIC MILLS[a]

MILLION POUNDS

YARN	1979					1980					1981	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% FILAMENT												
RAYON, ACETATE & TRIACETATE	29.4	26.8	22.4	25.6	104.2	25.9	26.0	20.9	22.7	95.5	26.7	
NYLON	106.8	98.7	87.4	100.3	393.2	97.7	76.9	74.8	87.0	336.4	89.4	
POLYESTER	127.0	119.5	102.5	107.2	456.2	98.0	83.2	88.2	105.8	375.2	117.2	
TEXTILE GLASS	42.3	41.8	39.6	42.9	166.6	53.9	40.7	35.3	37.7	167.6	40.3	
OLEFIN & SARAN	65.5	67.9	66.0	94.1	293.5	74.0	67.9	} 74.0	111.9	335.2	108.2	
ALL OTHER	4.7	4.5	4.4	4.3	17.9	4.6	2.8					
TOTAL FILAMENT YARN ABOVE	**375.7**	**359.2**	**322.3**	**374.4**	**1431.6**	**354.1**	**297.5**	**293.2**	**365.1**	**1309.9**	**381.8**	
SPUN YARN												
100% COTTON	375.3	361.0	335.1	343.3	1414.7	364.8	348.5	311.7	331.2	1356.2	322.7	
100% WOOL	11.5	10.0	6.7	6.8	35.0	9.1	9.6	6.0	8.0	32.7	11.9	
100% ACRYLIC	6.2	6.6	4.8	5.4	23.0	6.7	8.0	7.4	6.6	28.7	5.6	
100% POLYESTER	51.0	49.1	44.6	43.1	187.8	43.3	35.1	30.9	27.9	137.2	37.1	
RAYON AND/OR ACETATE[b]	36.3	35.4	30.4	29.8	131.9	29.7	22.0	21.3	24.6	97.6	31.3	
POLYESTER/COTTON BLENDS[c]	310.3	311.0	296.5	324.2	1242.0	359.6	355.5	324.3	333.1	1372.5	330.3	
POLYESTER/WOOL BLENDS[c]	6.6	6.1	5.3	5.7	23.7	5.1	6.0	5.5	5.6	22.2	6.3	
POLYESTER/RAYON BLENDS[c]	32.9	32.6	29.3	31.3	126.1	32.8	36.2	34.1	40.7	143.8	33.8	
TOTAL SPUN YARN ABOVE	**830.1**	**811.8**	**752.7**	**789.6**	**3184.2**	**851.1**	**820.9**	**741.2**	**777.7**	**3190.9**	**779.0**	
ALL OTHER YARNS[d]	**22.9**	**22.2**	**21.0**	**20.5**	**86.6**	**24.7**	**19.7**	**20.5**	**25.1**	**90.0**	**22.8**	
GRAND TOTAL	**1228.7**	**1193.2**	**1096.0**	**1184.5**	**4702.4**	**1229.9**	**1138.1**	**1054.9**	**1167.9**	**4590.8**	**1183.6**	

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T.*

a. Includes data from all types of broad woven fabric mills, i.e., cotton, man-made, woolen & worsted and tire cord & fabric mills.

b. Includes 100% spun rayon and acetate as well as rayon and/or acetate/cotton blends regardless of blend level.

c. Regardless of blend level.

d. All Other Yarns includes spun nylon, other blends, silk and paper.

TIRE CORD & TIRE FABRICS PRODUCTION

MILLION POUNDS

TYPE OF FABRIC	1979					1980					1981	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
TIRE CORD & TIRE FABRICS	**162.5**	**148.6**	**120.4**	**134.7**	**566.2**	**138.9**	**101.6**	**104.5**	**132.3**	**477.3**	**159.3**	
TIRE CORD & TIRE CORD FABRICS												
NYLON	78.3	70.9	63.1	80.3	292.6	75.0	56.5	56.1	71.0	258.6	85.8	
POLYESTER	60.6	54.4	40.6	38.9	194.5	45.3	29.9	33.2	45.5	153.9	53.7	
RAYON	6.7	7.2	4.8	5.1	23.8	6.1	5.3	} 8.0	8.0	36.5	4.0	
GLASS	7.6	6.1	4.5	3.4	21.6	5.1	4.0				5.0	
CHAFER & OTHER[a]	9.3	10.0	7.4	7.0	33.7	7.4	5.9	7.2	7.8	28.3	10.8	

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T.*

a. Includes a nominal amount of cotton and some steel.

and craft yarn trades (up 10% to 70.6 million pounds), polyester staple+tow to broad woven goods (up 11% to 296.7 million pounds) and the carpet trades (up 39% to 37.6 million pounds). Shipments to apparel, home furnishings and industrial trades all increased during the second quarter of 1981.

Drawing the yarn and staple data from the tables on pages 134 and 135 together, the distribution between the apparel, home furnishings and industrial market segments is as follows (million pounds):

	1977	1978	1979	1980	6 MOS. 1981
Apparel	3186	3165	3153	3195	1595
Home Furnishings	2693	2887	3034	2687	1432
Industrial	1645	1814	2038	1774	915
Total	**7524**	**7866**	**8225**	**7656**	**3942**

BROAD WOVEN FABRICS PRODUCTION

The broad woven fabrics production data shown in this issue of the ORGANON, as compiled from the U.S. Census Bureau's Current Industrial Report MQ-22T, are in millions of square yards, except for the Tire Cord & Tire Fabrics and Yarn Consumed tables, which continue to be shown in million pounds.

For the last two quarters of 1980, the fabric production data are shown in both linear *and* square yards in MQ-22T. But for 1981 and subsequent years, data are collected and published in square yards only to provide comparability between imports, exports and domestic output. Production in linear yards was last shown in the May 1981 ORGANON, pages 73-75.

BROAD WOVEN GOODS PRODUCTION

MILLION SQUARE YARDS

TYPE OF FABRIC	1980				1981				
	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
COTTON FABRICS			**996.2**	**1072.4**	**992.5**				
DUCK & ALLIED FABRICS			23.1	18.5	19.8				
SHEETING & ALLIED FABRICS			157.4	188.4	194.7				
PRINT CLOTH YARN FABRICS	NOT AVAILABLE IN		379.6	417.6	354.2				
DENIMS	SQUARE YARDS.		150.9	149.0	146.1				
TOWELING, WASH- & DISHCLOTHS	SEE MAY 1981		110.0	126.7	130.5				
BLANKETING & OTHER NAPPED FABRICS	ORGANON FOR		24.4	27.5	26.2				
FINE COTTON FABRICS	LINEAR YARDS.		29.2	17.5	14.2				
CORDUROYS			93.3	87.9	75.8				
UPHOLSTERY, TAPESTRY & VELVETS[a]			3.1	3.0	6.1				
DRAPERY & BEDSPREAD FABRICS			10.4	12.7	19.8				
ALL OTHER FABRICS			14.8	23.6	5.1				
WOOLEN & WORSTED FABRICS[b]			**43.7**	**40.0**	**53.7**				
MEN'S & BOYS' CLOTHING			19.5	20.9	30.7				
WOMEN'S & CHILDREN'S CLOTHING			22.5	16.1	20.5				
NONAPPAREL FABRICS			1.7	3.0	2.5				
MAN-MADE FABRICS			**2506.0**	**2979.2**	**2928.9**				
100% FILAMENT YARN FABRICS									
100% RAYON			6.2	7.1	7.2				
COMBINATIONS, CHIEFLY ACETATE			11.9	13.9	14.4				
100% NYLON			123.9	136.0	125.9				
100% POLYESTER			234.9	268.9	271.6				
COMBINATIONS, CHIEFLY POLYESTER			23.9	21.1	21.5				
TEXTILE GLASS			85.5	93.2	105.3				
OTHER			402.8	568.4	471.2				
100% SPUN YARN FABRICS & BLENDS									
RAYON & ACETATE			84.0	159.0	174.5				
NYLON			5.4	6.5	8.8				
POLYESTER[c]			1256.5	1376.3	1391.9				
ACRYLIC+MODACRYLIC			22.6	20.4	16.9				
ALL OTHER			8.7	12.1	4.6				
COMBINATIONS & MIXTURES[d]									
FILAMENT RAYON OR ACETATE WARP			23.2	33.5	36.6				
FILAMENT POLYESTER WARP			63.2	84.8	79.8				
OTHER			77.3	100.0	97.7				
SPECIALTIES									
DRAPERY & BEDSPREAD FABRICS			48.9	43.7	66.7				
SILK FABRICS			27.1	0.4	0.3				
VELVETS				3.9	3.8				
OTHER SPECIALTY[e]				30.0	30.2				
TOTAL BROAD WOVEN FABRICS ABOVE			**3545.9**	**4091.6**	**3975.1**				

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*.

a. For 1980 includes velvets only.

b. Felts are not included.

c. Includes polyester blanketing.

d. Includes filament & spun yarn fabrics.

e. 100% or chiefly man-made fibers; chief fiber not specified. Also includes upholstery & tapestry, and small poundages of silk, tie, twisted paper yarn and girdle & swimwear fabrics.

The aggregates published in this report have been compiled from a sample of approximately 650 respondents accounting for 95% of the total U.S. production of broad woven fabrics in 1977. The universe for this sample was the 1977 Census of Manufactures.

BROAD WOVEN GOODS PRODUCTION

First quarter 1981 production of broad woven fabrics totaled 3,975.1 million square yards, a decrease of 116.5 million square yards or 3% from the fourth quarter 1980 level of 4,091.6 million square yards. Woolen and worsted fabrics was the only category to show a quarter-to-quarter increase.

Cotton broad woven fabric production declined 7½% between fourth quarter 1980 and first quarter 1981 to 992.5 million square yards. The biggest declines were registered in print cloth fabrics (down 63.4 million square yards to 354.2 million square yards), corduroys (down 12.1 million square yards to 75.8 million square yards) and denims (down 2.9 million square yards to 146.1 million square yards). Production of sheeting & allied fabrics, drapery & bedspread fabrics and toweling all increased during the first quarter of 1981.

First quarter 1981 production of woolen & worsted fabrics increased 34% to 53.7 million square yards from the 40.0 million square yards produced the

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION

MILLION SQUARE YARDS

TYPE OF FABRIC	1980				1981				
	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
100% FILAMENT YARN FABRICS			**889.1**	**1108.6**	**1017.2**				
100% FILAMENT RAYON			6.2	7.1	7.2				
TWILL			5.0	6.0	6.4				
ALL OTHERS[a]			1.2	1.1	0.8				
FILAMENT COMB., CHIEFLY ACETATE[b]	NOT AVAILABLE IN SQUARE YARDS. SEE MAY 1981 ORGANON FOR LINEAR YARDS.		11.9	13.9	14.4				
100% FILAMENT NYLON			123.9	136.0	125.9				
INDUSTRIAL TYPE			50.4	57.7	52.2				
ALL OTHER			73.5	78.3	73.7				
100% FILAMENT POLYESTER			234.9	268.9	271.6				
TEXTURED YARN FABRICS			170.0	190.6	197.8				
NONTEXTURED YARN FABRICS									
INDUSTRIAL TYPE			12.5	13.1	13.3				
ALL OTHER, INCL. MARQUISETTES, NINONS & OTHER SHEERS			52.4	65.2	60.5				
FILAMENT COMB., CHIEFLY POLYESTER			23.9	21.1	21.5				
GLASS FIBER			85.5	93.2	105.3				
HOUSEHOLD FABRICS[c]									
INDUSTRIAL FABRICS									
WOVEN ROVING & SCREENING			9.4	8.6	9.7				
ALL OTHER			76.1	84.6	95.6				
100% FILAMENT ACETATE }			134.3	189.5	157.1				
FILAMENT COMB., CHIEFLY RAYON }									
OTHER 100% FILAMENT YARN FABRICS			268.5	378.9	314.2				

See footnotes on opposite page.

previous quarter. All categories of woolen & worsted fabric production increased, except for nonapparel fabrics.

Man-made fiber production during the January-March 1981 quarter totaled 2,928.9 million square yards, a decline of 1½% from fourth quarter 1980 levels. All categories of filament yarn fabrics increased from their fourth quarter 1980 levels except for 100% nylon and others. For spun yarn fabrics the pattern was similar with only acrylic+modacrylic and others declining from their fourth quarter 1980 level. Specialty fabrics, except for silk and velvets, registered increases during the latest quarter.

YARNS CONSUMED IN BROAD WOVEN FABRIC MILLS

During the first quarter of 1981, broad woven fabric mills consumed 1,183.6 million pounds of yarn according to the U.S. Census Bureau, an increase of 1½% over fourth quarter 1980 consumption of 1,167.9 million pounds, but 4% below the level of a year ago.

Filament yarn consumption during the first quarter of 1981 totaled 381.8 million pounds, 4½% above the previous quarter and 8% above first quarter 1980 levels. All categories of filament yarn increased during the first quarter of 1981 as compared with fourth quarter 1980 and only nylon and textile glass filament yarn declined as compared with first quarter 1980.

January-March 1981 consumption of spun yarn, at 779.0 million pounds, though slightly above the 777.7 million pounds consumed the previous quarter, was 8½% below the 851.1 million pounds used during the first quarter of 1980. Consumption of 100% spun cotton yarns in the latest quarter, at 322.7 million pounds, declined 2½% from fourth quarter 1980 levels and was 12% below year-ago levels. Spun polyester/cotton yarn consumption in the first quarter of 1981 declined 1% to 330.3 million pounds from the fourth quarter 1980 level and was 8% below first quarter 1980 levels.

U.S. EXPORTS

Second quarter exports of man-made fibers totaled 385,143 thousand pounds, an increase of 6% over the 363,619 thousand pounds exported during the first quarter of 1981 and 7% above that exported during the second quarter of 1980. First half 1981 exports totaled 748,762 thousand pounds, an increase of 9½% over the 683,210 thousand pounds exported during the first six months of 1980.

Cellulosic yarn exports during the second quarter of 1981 decreased 28% to 6,013 thousand pounds from first quarter 1981, and were 4½% below the 6,297 thousand pounds exported during the corresponding 1980 quarter. Cellulosic staple+tow exports, at 16,280 thousand pounds, during the April-June 1981 period increased 2½% from the first quarter, but were 16% less than the 19,318 thousand pounds exported during

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION *(Continued)*

MILLION SQUARE YARDS

TYPE OF FABRIC	1980				1981				
	1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
100% SPUN YARN & BLENDS			**1377.2**	**1574.3**	**1596.6**				
100% SPUN RAYON AND/OR ACETATE FABRICS, EXCEPT BLANKETING	NOT AVAILABLE IN SQUARE YARDS. SEE MAY 1981 ORGANON FOR LINEAR YARDS.		24.7	1[illegible]0	174.4				
SPUN RAYON AND/OR ACETATE BLENDS, EXCEPT BLANKETING			59.3						
SPUN NYLON FABRICS			5.4	6.5	8.8				
100% SPUN POLYESTER, EXCEPT BLANKETING			59.8	61.6	82.7				
SPUN POLYESTER BLENDS WITH COTTON, EXCEPT BLANKETING			1013.7	1112.6	1107.2				
BATISTE			60.4	69.4	77.2				
BED SHEETING			373.7	402.9	404.3				
BROADCLOTH			89.6	93.3	79.2				
CORDUROY			INCLUDED IN VOILES BELOW		15.7				
TWILLS, INCL. GABARDINE			76.2	91.9	93.6				
OXFORDS									
SHIRTING			6.4	12.2	9.7				
OTHER (INCL. HOPSACKS)			14.2	15.4	13.2				
POPLINS			67.0	65.4	65.5				
SATEENS			63.2	50.6	49.4				
VOILES				24.6					
YARN-DYED FABRICS[d]			68.1	66.3	62.3				
PRINT CLOTH YARN FABRICS			152.8	164.2	187.1				
OTHER			42.1	56.4	50.0				
SPUN POLYESTER BLENDS WITH RAYON, EXCEPT BLANKETING			142.2	160.4	168.1				
PRINT CLOTH, INCL. BROADCLOTH			88.0	100.4	113.6				
ALL OTHER			54.2	60.1	54.5				
SPUN POLYESTER BLENDS WITH WOOL, EXCEPT BLANKETING			26.3	26.3	20.1				
BLANKETING WHOLLY OR CHIEFLY POLYESTER									
SPUN POLYESTER WITH OTHER FIBERS, EXCEPT BLANKETING			14.5	15.4	13.8				
SPUN ACRYLIC & MODACRYLIC FABRICS			22.6	20.4	16.9				
BLANKETING			17.4	15.7	14.2				
OTHER SPUN ACRYLIC, EXCEPT BLANKETING, INCL. BLENDS			5.2	4.7	2.7				
ALL OTHER 100% SPUN YARN FABRICS AND BLENDS			8.7	12.1	4.6				
COMBINATIONS & MIXTURES OF FILAMENT & SPUN YARNS			**163.7**	**218.3**	**214.1**				
FILAMENT RAYON OR ACETATE WARP			23.2	33.5	36.6				
FILAMENT POLYESTER WARP			63.2	84.8	79.8				
ALL OTHER FILAMENT WARP FABRICS			2.0	2.7	3.4				
SPUN WARP & FILAMENT FILLING			75.3						
COMBINATION FILAMENT & SPUN WARP OR FILLING				97.3	94.3				
OTHER SPECIALTY FABRICS			**76.0**	**78.0**	**101.0**				
DRAPERY & BEDSPREAD FABRIC			48.9	43.7	66.7				
JACQUARD-WOVEN			1.5	1.3	2.8				
OTHER-WOVEN			47.4	42.4	63.9				
SILK FABRICS			27.1	0.4	0.3				
VELVETS & OTHER PILE FABRICS				3.9	3.8				
ALL OTHER[e]				30.0	30.2				
TOTAL MAN-MADE FIBER FABRICS ABOVE			**2506.0**	**2979.2**	**2928.9**				

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T.*

a. Includes marquisettes, ninons, sheers, industrials, satins and taffetas (plain weave).

b. Includes plied yarn fabrics, crepes and satins.

c. Included in industrial fabrics below.

d. Includes overdyed fabrics.

e. Includes upholstery & tapestry, tie, girdle & swimwear and twisted paper yarn fabrics.

April-June 1980.

Second quarter exports of non-cellulosic yarn+monofilaments increased 2% to 118,054 thousand pounds from the January-March 1981 level of 115,733 thousand pounds and were 28% ahead of the corresponding 1980 period. Non-cellulosic staple+tow exports totaled 207,469 thousand pounds in the latest quarter, an increase of

(Continued on page 141)

U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER & MANUFACTURES, COTTON MANUFACTURES & WOOL MANUFACTURES

MILLION POUNDS

PRODUCTS	1ST Q 1980			2ND Q 1980			3RD Q 1980			4TH Q 1980			1ST Q 1981			2ND Q 1981		
	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]
RAYON+ACETATE																		
YARN+MONOFILAMENTS	2.0	6.9	4.9 E	2.5	6.3	3.8 E	1.8	6.7	4.9 E	2.0	7.1	5.1 E	3.4	8.4	5.0 E	2.6	6.0	3.4 E
STAPLE+TOW[b]	2.1	19.1	17.0 E	2.0	19.3	17.3 E	2.7	19.7	17.0 E	3.5	12.9	9.4 E	4.0	15.9	11.9 E	4.0	16.3	12.3 E
WASTE	0.1	1.9	1.8 E	0.1	1.8	1.7 E	0.1	1.7	1.6 E	0.1	0.8	0.7 E	0.1	0.7	0.6 E	0.1	0.8	0.7 E
SUBTOTAL ABOVE	**4.2**	**27.9**	**23.7 E**	**4.6**	**27.4**	**22.8 E**	**4.6**	**28.1**	**23.5 E**	**5.6**	**20.8**	**15.2 E**	**7.5**	**25.0**	**17.5 E**	**6.7**	**23.1**	**16.4 E**
NON-CELLULOSIC FIBERS																		
YARN+MONOFILAMENTS	4.8	76.3	73.5 E	5.4	92.5	87.1 E	5.6	92.3	86.7 E	3.8	92.1	88.3 E	3.4	115.7	112.3 E	5.7	118.0	112.3 E
STAPLE+TOW	9.6	163.8	154.2 E	9.8	190.9	181.1 E	7.1	182.0	174.9 E	9.1	195.8	186.7 E	12.8	187.0	174.2 E	16.4	207.5	191.1 E
WASTE	5.8	38.1	32.3 E	5.1	33.7	28.6 E	4.4	22.3	17.9 E	6.2	22.4	16.2 E	11.9	25.7	13.8 E	11.0	27.9	16.9 E
SUBTOTAL ABOVE	**20.2**	**280.2**	**260.0 E**	**20.3**	**317.1**	**296.8 E**	**17.1**	**296.6**	**279.5 E**	**19.1**	**310.3**	**291.2 E**	**28.1**	**328.4**	**300.3 E**	**33.1**	**353.4**	**320.3 E**
TOTAL FIBER ABOVE[c]	**24.4**	**308.1**	**283.7 E**	**24.9**	**344.5**	**319.6 E**	**21.7**	**324.7**	**303.0 E**	**24.7**	**331.1**	**306.4 E**	**35.6**	**353.4**	**317.8 E**	**39.8**	**376.5**	**336.7 E**
MAN-MADE FIBER MANUFACTURES[d]																		
SLIVER, TOPS & ROVING	9.7	4.0	3.3 E	0.9	3.3	2.4 E	1.0	2.4	1.4 E	0.2	3.4	3.2 E	1.2	2.3	1.1 E	0.7	2.8	2.1 E
SPUN YARNS	7.3	7.4	0.1 E	6.6	8.2	1.6 E	4.1	7.4	3.3 E	4.9	9.8	4.9 E	6.8	14.6	7.8 E	8.2	13.4	5.2 E
THREAD & CRAFT YARNS	0.7	2.2	1.5 E	0.5	1.7	1.2 E	0.5	1.9	1.4 E	0.6	1.6	1.0 E	0.7	1.5	0.8 E	0.8	1.3	0.5 E
TIRE CORD & FABRIC	+	24.3	24.3 E	+	32.0	32.0 E	+	27.7	27.7 E	+	31.5	31.4 E	+	14.0	14.0 E	+	12.4	12.4 E
WOVEN FABRIC	16.3	55.8	39.5 E	18.0	63.7	45.7 E	17.2	60.3	43.1 E	15.8	70.0	54.2 E	21.4	57.3	35.9 E	25.7	61.5	35.8 E
KNIT FABRIC	1.5	5.2	3.7 E	1.4	5.9	4.5 E	1.6	5.8	4.2 E	1.5	6.3	4.8 E	0.6	5.7	5.1 E	0.5	7.3	6.8 E
NARROW FABRIC	2.5	4.9	2.4 E	2.1	7.8	5.7 E	1.9	6.7	4.8 E	1.6	6.1	4.5 E	1.9	6.2	4.3 E	2.4	6.9	4.5 E
APPAREL - KNIT	35.8	29.2	46.2 I	50.3	33.8	63.9 I	[illegible]1.9	32.1	87.8 I	39.7	32.0	54.5 I	32.8	33.0	50.3 I	47.1	35.1	73.9 I
- NOT KNIT	39.6			46.4			58.8			46.8			50.5			61.9		
HOME FURNISHINGS	11.5	25.2	31.6 E	13.8	31.3	34.5 E	13.8	25.9	27.4 E	13.5	29.0	31.0 E	13.2	22.8	26.2 E	14.1	22.1	26.9 E
OTHER		17.9			17.0			15.3			15.5			16.6			18.9	
TOTAL MANUFACTURES	**115.9**	**176.1**	**60.2 E**	**140.0**	**204.7**	**64.7 E**	**164.0**	**185.5**	**25.5 E**	**124.7**	**205.2**	**80.5 E**	**129.1**	**174.0**	**44.9 E**	**161.4**	**181.7**	**20.3 E**
TOTAL MAN-MADE FIBER & MANUFACTURES	**140.3**	**484.2**	**343.9 E**	**164.9**	**549.2**	**384.3 E**	**181.7**	**510.2**	**328.5 E**	**149.4**	**536.3**	**386.9 E**	**164.7**	**527.4**	**362.7 E**	**201.2**	**558.2**	**357.0 E**
COTTON MANUFACTURES[e]	**197.3**	**140.8**	**56.5 I**	**217.1**	**139.9**	**77.2 I**	**222.9**	**125.5**	**97.4 I**	**173.6**	**116.9**	**56.7 I**	**237.3**	**104.8**	**132.5 I**	**231.3**	**105.6**	**125.7 I**
WOOL MANUFACTURES[f]	**22.2**	**4.0**	**18.2 I**	**27.4**	**8.2**	**19.2 I**	**32.1**	**6.4**	**25.7 I**	**21.6**	**5.7**	**15.9 I**	**23.5**	**3.5**	**20.0 I**	**29.2**	**3.5**	**25.7 I**

SOURCES: The man-made fiber import and export data are from the U.S. Bureau of the Census.

The man-made, cotton and wool manufactures data are from *Cotton and Wool Situation*, a publication of the U.S. Department of Agriculture.

The total man-made fiber and manufactures import, export and balance data of this table cover the cellulosic and non-cellulosic fibers only; textile glass fiber is excluded.

[a] E means a net export balance; I is a net import balance.

[b] Acetate tow is excluded.

[c] The fibers included are shown as "Total Man-Made Fiber Above" on page 142 herewith.

[d] Man-made fiber equivalent.

[e] Raw cotton equivalent. Data are similar to those on page 37 of the March 1981 ORGANON issue.

[f] Raw wool content. The data differ from those on page 37 of the March ORGANON issue to the extent that noils and waste are included here.

U.S. EXPORTS OF MAN-MADE F!BERS

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1980					1981				
		1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
RAYON+ACETATE											
FILAMENT YARN[a]											
TEXTURED	310.0006	321	234	1509	521	2585	93	75			
OTHER[b]	310.0026	6431	6030	5118	6551	24130	8191	5829			
MONOFILAMENTS	309.0110	89	32	9	19	149	47	30			
STRIPS	309.2210	41	1	23	1	66	66	79			
SUBTOTAL ABOVE		**6882**	**6297**	**6659**	**7092**	**26930**	**8397**	**6013**			
STAPLE+TOW - RAYON	309.4222	16581	17378	18763	12095	64817	12222	14234			
STAPLE - ACETATE	309.4219	2549	1940	954	812	6255	3692	2046			
SUBTOTAL ABOVE		**19130**	**19318**	**19717**	**12907**	**71072**	**15914**	**16280**			
WASTE, ADVANCED & NOT ADVANCED	309.7400	1842	1773	1726	749	6090	693	795			
NON-CELLULOSIC FIBERS											
FILAMENT YARN[a]											
NYLON - TEXTURED	310.0008 & .0009	10848	10303	15608	17014	53773	21787	17478			
- HIGH TENACITY[c]	310.0027	13761	14502	13848	15693	57804	18138	17544			
- OTHER	310.0029	5848	6514	6218	6387	24967	5461	4325			
POLYESTER - TEXTURED	310.0010	22596	29472	30889	31953	114910	48758	58681			
- HIGH TENACITY[c]	310.0032	7995	6763	3883	4561	23202	4870	5364			
- OTHER[d]	310.0034	1103	1886	2329	2175	7493	2380	3063			
OTHER - TEXTURED	310.0014	4086	5077	5599	4243	19005	4174	3082			
- OLEFIN	310.0040	389	796	683	652	2520	741	519			
- OTHER	310.0044	1360	1574	1266	1065	5265	1566	1452			
MONOFILAMENTS, ALL DENIERS											
NYLON	309.0120	4364	5002	3647	2294	15307	2387	1935			
POLYESTER[e]	309.0140	3500	6050	5678	3757	18985	2816	1767			
OTHER	309.0170	1762	3233	2114	1556	8665	1289	1314			
STRIPS	309.2220 & .2270	715	1328	598	786	3427	1366	1530			
SUBTOTAL ABOVE		**78327**	**92500**	**92360**	**92136**	**355323**	**115733**	**118054**			
STAPLE - NYLON	309.4240	8263	5805	7693	7545	29306	9443	7030			
- POLYESTER	309.4242	84380	117941	117965	127004	447290	108893	138242			
- ACRYLIC	309.4245	39136	30799	34986	40251	145172	41711	40137			
- OLEFIN	309.4246	866	861	523	1025	3275	664	431			
- OTHER	309.4247	4643	5582	3278	4248	17751	5015	5800			
GROUPED FILAMENTS											
NYLON	309.3220	1726	2714	1005	1837	7282	1724	763			
POLYESTER[d]	309.3240	16041	19690	10025	9124	54880	9508	6706			
ACRYLIC	309.3250 & .3255	8704	7531	6487	4795	27517	10076	8360			
SUBTOTAL ABOVE		**163759**	**190923**	**181962**	**195829**	**732473**	**187034**	**207469**			
WASTE, ADVANCED & NOT ADVANCED											
NYLON	309.7620	3620	4563	4018	2319	14520	3470	4141			
POLYESTER	309.7630	22134	17087	10260	11672	61153	11606	13086			
ACRYLIC	309.7640	511	511	469	861	2352	1874	1531			
OTHER	309.7660	11862	11496	7522	7515	38395	8718	9163			
TOTAL MAN-MADE FIBER ABOVE		**308067**	**344468**	**324693**	**331080**	**1308308**	**353439**	**376532**			
TEXTILE GLASS FIBER	309.2700 & .9700	15164	15511	11719	12013	54407	10180	8611			
GRAND TOTAL ABOVE		**323231**	**359979**	**336412**	**343093**	**1362715**	**363619**	**385143**			

SOURCE: U.S. Census Bureau Report.

a. Includes thrown, singles and plied yarn.

b. Includes an undetermined amount of rayon tire cord and cord fabric.

c. Includes an undetermined amount of non-cellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

e. These data are obviously incorrect because of misclassification. Most of these poundages should be included with filament yarn.

11% over first quarter 1981 and 8½% over second quarter 1980 exports. Textile glass exports, at 8,611 thousand pounds for the second quarter of 1981, declined 15% from the previous quarter's level, and were 44% below the 15,511 thousand pounds exported during the same 1980 quarter.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1 - 1 - 78	1981 JAN	1981 FEB	1981 MAR	1981 APR	1981 MAY	1981 JUN	6 MONTHS 1981	6 MONTHS 1980
RAYON+ACETATE									
YARN - SINGLES									
TEXTURED	310.0106 & .0206	1	10	0	242	4	0	257	765
OTHER	310.0130 & .0230[a]	1182	1139	1084	339	1370	600	5714	3766
MONOFILAMENTS	309.0310 & .0610	1	2	0	0	0	0	3	0
STRIPS, $1/LB & UNDER	309.2000*	0	0	0	0	--	0	--	0
SUBTOTAL ABOVE		**1184**	**1151**	**1084**	**581**	**1374**	**600**	**5974**	**4531**
STAPLE	309.4320 & .4325	1627	1006	927	887	1442	990	6879	2694
GROUPED FILAMENTS	309.3010 & .3110	239	133	64	185	232	263	1116	1396
SUBTOTAL ABOVE		**1866**	**1139**	**991**	**1072**	**1674**	**1253**	**7995**	**4090**
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	37	7	37	0	35	40	156	151
NON-CELLULOSIC FIBERS									
YARN - SINGLES									
TEXTURED - NYLON	310.0109 & .0209	197	217	215	586	507	375	2097	416
- POLYESTER	310.0110 & .0210	27	7	22	13	79	80	228	290
- OTHER	310.0114 & .0214	17	56	8	17	49	23	170	146
OTHER - NYLON	310.0149 & .0249	204	525	127	542	487	354	2239	2097
- POLYESTER	310.0150 & .0250	111	411	299	399	482	491	2193	3602
- OTHER	310.0170 & .0270[b]	170	183	113	188	164	56	874	820
MONOFILAMENTS	309.0200 & .0330[c]	145	200	149	321	258	220	1293	2716
STRIPS, OVER $1/LB	309.2100 & .2500*	21	11	16	21	9	15	93	136
SUBTOTAL ABOVE		**892**	**1610**	**949**	**2087**	**2035**	**1614**	**9187**	**10223**
STAPLE - NYLON	309.4338	525	2686	1698	2533	2455	1574	11471	754
- POLYESTER	309.4342	132	111	306	661	847	363	2420	657
- ACRYLIC	309.4345	1069	1594	907	1201	1005	565	6341	7649
- OLEFIN	309.4346	5	0	304	1	5	71	386	60
- OTHER	309.4355	469	961	673	1088	852	1281	5324	7298
GROUPED FILAMENTS									
NYLON	309.3030 & .3130	68	50	68	137	155	196	674	531
POLYESTER	309.3040 & .3140	0	42	0	0	44	90	176	117
ACRYLIC	309.3050 & .3150	181	255	178	291	195	312	1412	1855
OTHER	309.3065 & .3165	65	116	302	166	156	186	991	447
SUBTOTAL ABOVE		**2514**	**5815**	**4436**	**6078**	**5714**	**4638**	**29195**	**19368**
WASTE, NOT ADVANCED - NYLON	309.6625	1598	1587	2822	1713	2134	1607	11461	6902
- POLYESTER	309.6630	1071	1810	1547	1005	1473	1321	8227	1943
- ACRYLIC	309.6645	289	258	200	236	379	269	1631	1219
- OTHER	309.6660	32	203	263	328	127	331	1284	532
NOILS & GARNETTED FIBERS	309.6000 & .7000*	0	0	0	0	0	0	0	2
OTHER WASTE, ADVANCED	309.7525 - .7555	119	63	3	35	2	6	228	333
TOTAL MAN-MADE ABOVE		**9602**	**13643**	**12332**	**13135**	**14947**	**11679**	**75338**	**49294**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD									
YARN - PLIED									
TEXTURED - CELLULOSIC	310.1106	0	--	24	0	0	0	24	0
- NON-CELLULOSIC	310.1015[d] & .1109[e]	268	124	213	313	364	265	1547	674
OTHER - CELLULOSIC	310.1030 & .1135[f]	16	--	0	--	0	0	16	97
- NON-CELLULOSIC	310.1050 & .1070[g]	20	27	26	44	20	4	141	281
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	10	25	24	52	37	24	172	431
- OTHER	310.4015 & .4027[i]	1762	1454	1794	1740	2164	1312	10226	11775
OTHER YARNS - NES, INCL. CHENILLE	310.6029 - .8000	352	109	261	415	609	433	2179	1359
HANDWORK YARNS & SEWING THREAD	310.9000 - .9140	247	230	188	190	262	292	1409	1195
SLIVER, TOPS & ROVING	309.9000	388	473	322	262	173	245	1863	1508
TEXTILE GLASS FIBER	309.2800 & .2900[j]	1156	441	1047	551	643	1485	5323	4044
GRAND TOTAL ABOVE		**13821**	**16526**	**16231**	**16702**	**19219**	**15730**	**98238**	**70658**

SOURCE: U.S.Census Bureau.

NES - Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & .0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1110 & .1114.

f. Also includes 310.2010 & .2110.

g. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Chiefly roving. Also includes 309.9800 & .9900.

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEM	1981						6 MONTHS	
	JAN	FEB	MAR	APR	MAY	JUN	1981	1980
RAYON+ACETATE YARN, MONOFIL & STRIPS								
CANADA	318	125	8	1	12	5	469	230
MEXICO	161	79	163	41	191	166	801	858
BELGIUM	0	50	25	0	76	0	151	0
WEST GERMANY	242	290	555	200	639	179	2105	641
NETHERLANDS	236	593	333	293	262	194	1911	727
SPAIN	142	0	0	0	41	0	183	0
UNITED KINGDOM	1	10	0	6	41	0	58	1339
JAPAN	64	0	0	0	33	36	133	487
SOUTH KOREA	1	0	0	40	40	0	81	40
ALL OTHER COUNTRIES[a]	19	4	0	0	39	20	82	209
TOTAL R+A YARN	**1184**	**1151**	**1084**	**581**	**1374**	**600**	**5974**	**4531**
RAYON+ACETATE STAPLE+TOW								
CANADA	469	474	436	451	421	392	2643	647
AUSTRIA	731	113	166	303	768	250	2331	353
FRANCE	18	83	39	43	0	45	228	57
WEST GERMANY	0	0	85	0	0	0	85	106
SWEDEN	332	234	184	0	187	227	1164	1248
UNITED KINGDOM	226	76	7	157	203	235	904	1135
JAPAN	90	147	74	118	59	88	576	494
ALL OTHER COUNTRIES[b]	0	12	0	0	36	16	64	50
TOTAL R+A STAPLE	**1866**	**1139**	**991**	**1072**	**1674**	**1253**	**7995**	**4090**
NON-CELLULOSIC YARN, MONOFIL & STRIPS								
CANADA	50	98	4	579	415	280	1426	717
MEXICO	14	20	12	15	44	9	114	4
FRANCE	94	130	203	210	166	109	912	339
WEST GERMANY	256	382	275	501	426	353	2193	1905
ITALY	52	152	35	0	108	79	426	55
UNITED KINGDOM	57	114	37	3	5	1	217	143
JAPAN	300	671	357	776	662	743	3509	6345
SOUTH KOREA	5	36	3	3	43	2	92	9
ALL OTHER COUNTRIES[c]	64	7	23	0	166	38	298	706
TOTAL N.C. YARN	**892**	**1610**	**949**	**2087**	**2035**	**1614**	**9187**	**10223**
NON-CELLULOSIC STAPLE+TOW								
CANADA	328	350	449	531	714	425	2797	1612
MEXICO	190	28	97	510	693	217	1735	23
BELGIUM	0	130	0	152	70	2	354	2
FRANCE	44	797	198	508	533	254	2334	22
WEST GERMANY	541	1963	1625	2233	1644	1345	9351	5713
ITALY	7	813	616	423	717	164	2740	793
NETHERLANDS	0	39	44	80	35	15	213	4
POLAND	44	38	0	0	89	0	171	53
ROMANIA	0	0	132	84	28	0	244	322
UNITED KINGDOM	208	508	320	173	264	818	2291	1486
JAPAN	828	335	367	493	343	478	2844	3378
TAIWAN	324	745	588	875	583	866	3981	5859
ALL OTHER COUNTRIES[d]	0	69	0	16	1	54	140	101
TOTAL N.C. STAPLE	**2514**	**5815**	**4436**	**6078**	**5714**	**4638**	**29195**	**19368**

Other countries supplying 1981 poundages are:

a. Austria 41, Greece 39 & Sweden 2.

b. Italy 64.

c. Austria 64, Belgium 1, Denmark 45, Hong Kong 2, Netherlands 87, Portugal 8, Spain 61, Sweden 9, Switzerland 18 & Taiwan 3.

d. Brazil 1, Costa Rica 40, Hong Kong 12, Ireland 56, Israel 5, Portugal 13 & Switzerland 13.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1981 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	YEAR TO DATE[a] 1981	1980
	TOTAL SHIPMENTS[b]										
MAN-MADE FIBER DATA[c]											
YARN+MONOFILAMENTS[d]											
ACETATE	**20.9**	**21.6**	**21.5**	**27.1**	**26.4**	**25.2**	**24.6**			**167.3**	**186.3**
NYLON[e] - INDUSTRIAL[f]	34.5	34.4	37.2	35.9	32.3	34.3	31.5			240.1	258.7
- LOW DENIER INDUSTRIAL[g]	3.0	3.0	3.8	2.8	2.3	3.3	2.5			20.7	21.2
- CARPET	67.1	63.8	65.3	73.4	65.3	61.3	55.9			452.1	409.8
- TEXTILE	33.7	36.6	38.4	37.3	36.1	37.3	31.7			251.1	261.7
POLYESTER - INDUSTRIAL[f]	25.5	24.3	27.3	29.0	24.7	25.5	26.9			183.2	165.0
- LOW DENIER INDUSTRIAL[g]	2.1	2.1	2.5	2.9	2.7	2.5	2.5			17.3	18.4
- TEXTILE	94.8	96.0	111.3	123.6	106.4	108.6	102.1			742.8	678.0
OLEFIN[h]	56.0	55.8	57.4	55.5	56.8	52.0	53.0			386.5	361.0
TOTAL NON-CELLULOSIC ABOVE[i]	**316.7**	**316.0**	**343.2**	**360.4**	**326.6**	**324.8**	**306.1**			**2293.8**	**2173.8**
STAPLE+TOW+FIBERFILL[j]											
RAYON	**40.9**	**35.4**	**37.9**	**41.4**	**40.8**	**37.5**	**39.4**			**273.3**	**270.7**
NYLON[e]	70.7	67.5	73.9	80.0	74.8	69.2	62.2			498.3	376.5
ACRYLIC+MODACRYLIC	59.3	62.2	63.8	65.3	61.9	60.1	51.7			424.3	466.5
POLYESTER	208.6	211.1	202.5	243.6	218.6	211.9	212.8			1509.1	1419.0
OLEFIN+VINYON	10.8	10.3	11.2	11.7	12.4	11.7	10.7			78.8	65.3
TOTAL NON-CELLULOSIC ABOVE	**349.4**	**351.1**	**351.4**	**400.6**	**367.7**	**352.9**	**337.4**			**2510.5**	**2327.3**
	END-OF-MONTH STOCK										
YARN+MONOFILAMENTS											
ACETATE	**17.0**	**15.4**	**15.8**	**13.5**	**11.6**	**12.1**	**11.4**			**11.4**	**14.6**
NYLON[e] - INDUSTRIAL[f]	37.5	37.9	35.7	36.7	42.5	41.2	43.8			43.8	34.5
- LOW DENIER INDUSTRIAL[g]	3.9	3.2	3.1	3.5	3.4	3.2	3.6			3.6	3.9
- CARPET	37.7	38.2	38.3	33.4	36.4	39.5	47.9			47.9	57.7
- TEXTILE	42.8	43.1	41.8	41.7	43.6	41.4	45.1			45.1	55.7
POLYESTER - INDUSTRIAL[f]	23.7	23.1	21.3	20.9	23.7	24.7	24.1			24.1	28.1
- LOW DENIER INDUSTRIAL[g]	3.6	3.4	3.5	3.6	3.3	3.6	3.6			3.6	2.7
- TEXTILE	100.2	104.1	87.3	67.5	72.5	76.0	89.4			89.4	92.5
OLEFIN[h]	63.9	62.3	61.6	60.4	58.3	62.3	61.8			61.8	73.8
TOTAL NON-CELLULOSIC ABOVE[i]	**313.3**	**315.3**	**292.6**	**267.7**	**283.7**	**291.9**	**319.3**			**319.3**	**348.9**
STAPLE+TOW+FIBERFILL											
RAYON	**24.2**	**25.1**	**29.3**	**28.1**	**25.4**	**23.7**	**23.2**			**23.2**	**37.6**
NYLON[e]	33.3	37.4	37.3	33.4	40.1	48.5	61.0			61.0	59.3
ACRYLIC+MODACRYLIC	76.5	76.3	74.3	68.5	67.1	63.8	64.6			64.6	57.5
POLYESTER	174.2	182.3	190.3	178.5	181.7	185.1	195.4			195.4	177.7
OLEFIN+VINYON	16.6	16.9	16.2	15.3	15.2	15.5	16.7			16.7	23.4
TOTAL NON-CELLULOSIC ABOVE	**300.6**	**312.9**	**318.1**	**295.7**	**304.1**	**312.9**	**337.7**			**337.7**	**317.9**
WOOL & COTTON CONSUMPTION											
APPAREL CLASS WOOL	11.0	12.1	14.6	13.2	11.5	12.7				75.1	68.5
CARPET CLASS WOOL	0.8	0.8	0.9	0.8	0.8	0.8				4.9	4.9
TOTAL RAW WOOL	11.8	12.9	15.5	14.0	12.3	13.5				80.0	73.4
RAW COTTON	217.4	245.4	247.1	238.1	220.6	236.1	191.1			1595.8	1816.9

a. Year to date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February issue for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 21 of the February issue.

C 5850-1

Textile Organon

Vol 52, No. 9 · September 1981

A publication of the Textile Economics Bureau, Inc.

Monthly Review

Highlights

August shipments of non-cellulosic fibers (except saran and spandex) increased 4½% over July shipments, to 673.3 million pounds. For the year to date, 1981 shipments, at 5,477.8 million pounds, are 6½% above deliveries for the corresponding 1980 period.

Our annual directory of U.S. man-made fiber producers details the fibers produced and their trademarks, as well as the plant, executive and sales office locations.

U.S. import-export data are presented from 1978 through mid-1981.

AUGUST SHIPMENTS INCREASE 4½%

Shipments of non-cellulosic fibers (except saran and spandex) totaled 673.3 million pounds during August, an increase of 4½% over July shipments of 643.7 million pounds. August deliveries of non-cellulosic yarn+monofilaments (except saran and spandex) were 316.5 million pounds, an increase of 3½% over July deliveries. For non-cellulosic staple+tow, August shipments rose 5½% from July levels to 356.8 million pounds.

For the first eight months of 1981, non-cellulosic fiber (except saran and spandex) shipments totaled 5,477.8 million pounds, an increase of 6½% over the 5,136.8 million pounds delivered during January-August 1980. Year-to-date shipments of non-cellulosic yarn+monofilaments (except saran and spandex) totaled 2,610.3 million pounds, 6% above the 2,467.5 million pounds shipped during the corresponding 1980 period. January-August deliveries of non-cellulosic staple+tow totaled 2,867.5 million pounds, a 7½% increase over the corresponding period a year ago.

AUGUST AND JULY SHIPMENTS COMPARED

Following is a comparison of total August shipments of non-cellulosic yarn+monofilaments (except saran and spandex) with July (million pounds), and the percentage change, respectively: nylon industrial yarn 36.5 & 31.5 & +16%; low denier industrial 2.9 & 2.5 & +16%; carpet 52.1 & 55.9 & -7%; textile 34.8 & 31.7 & +10%; polyester industrial yarn 27.3 & 26.9 & +1½%; low denier industrial 1.9 & 2.5 & -24%; textile 107.3 & 102.1 & +5%; olefin 53.7 & 53.0 & +1½% and the total of these fibers 316.5 & 306.1 & +3½%.

For non-cellulosic staple+tow, the corresponding data are: nylon 52.8 & 62.2 & -15%; acrylic+modacrylic 59.8 & 51.9 & +15%; polyester 232.9 & 212.8 & +9½%; olefin+vinyon 11.3 & 10.7 & +5½% and the total 356.8 & 337.6 & +5½%.

CELLULOSIC SHIPMENTS DECLINE 12%

August shipments of acetate yarn+monofilaments and rayon staple+tow totaled 56.8 million pounds, a decline of 12% from the 64.0 million pounds delivered during July. For the first eight months of this year, shipments totaled 497.4 million pounds, 3½% below the 515.9 million pounds delivered during the corresponding 1980 period.

Acetate yarn+monofilament deliveries during August totaled 19.9 million pounds, 19% below July shipments of 24.6 million pounds. January-August deliveries of 187.2 million pounds were 11% below those of the same 1980 period. August deliveries of rayon staple+tow declined 6½% from July levels to 36.9 million pounds. However, for the first eight months of this year, rayon staple+tow deliveries, at 310.2 million pounds, are 1½% above those of the corresponding 1980 period.

NEW ORGANON FORMAT

With this issue, the *Organon* puts on a whole new face: logo, typeface, paper and ink. We hope you like our new look and would welcome any comments you might have concerning the *Organon,* on both format and content.

MAN-MADE FIBER PRODUCERS' DIRECTORY

This ORGANON annual directory of U.S. man-made fiber producers, which updates and augments listings in the September 1980 and June 1981 issues, is presented on pages 147 et seq.

It will be noted that the current directory of producers separates the listings into (1) the cellulosic plus the non-cellulosic fibers (except olefin), (2) olefin fiber and (3) textile glass fiber.

The product arrangement follows the generic fiber nomenclature established by the U.S. Federal Trade Commission. See page 147 herewith for the FTC generic definitions.

The following generic names promulgated by the FTC do not appear in the directory: anidex, azlon, lastrile, nytril and vinal (not made in this country) and metallic, novoloid and rubber (no attempt is made to list these producers).

MULTIPLE-FIBER PRODUCERS

Five of the six rayon and/or acetate producers also are producers of non-cellulosic fibers. Thus American Enka also produces nylon, polyester and olefin (through Fibron). Avtex also produces polyester and vinyon. Celanese is the principle owner of Fiber Industries which also produces nylon, polyester and olefin. Courtaulds also produces modacrylic and polyester.

Of the producers making only the non-cellulosic fibers, 15 now produce, or will produce, more than one of these fibers. These multiproduct companies, and the total number of generic fiber types produced (shown in parentheses), are Albany International (4), Allied (2), Ametek (4), Badische (2), Berkley & Co. (2), Camac (2), Du Pont (7), Falk Fibers & Fabrics (2, including Hanover Mills and Universal Polymer Products), Firestone (2), Johnson Filaments (2), Monofilaments (3), Meyers (2), Monsanto (4), Shakespeare (2) and Wellman (2).

CAPTIVE FIBER PRODUCERS

Several olefin and nylon producers consume essentially all of their fiber output in products of their own manufacture such as rope, narrow fabric, industrial goods, etc., i.e., the fiber production is a captive operation. The word "captive" is shown to describe these producers in the directory; note the ninth paragraph of the definitions on page 147. Other producers consume lesser portions of their fiber production, e.g., note the subscripts to the listings for Badische Corporation (page 148) and Amoco Fabrics Company (page 149).

These captive fiber producers are listed here, and their output recorded in all *Organon* data surveys,

(Continued on page 152)

Contents

Monthly Review **145**
New Organon Format 145
U.S. Man-Made Fiber Directory **146**
  Multiple Fiber Producers 146
  Captive Fiber Producers 146
  Changes in Directory 152
  Celanese to Sell Moultrie Plant 155
Man-Made Fiber Producers **147-152**
  Olefin Fiber 149-151
  Textile Glass Fiber 151-152
  Location of Producing Plants 152
Exports-Imports and Balance **153**
  Man-Made Fiber Imports 154
  Man-Made Fiber Exports 155
  Exports by Country of Destination 156-157
Monthly Imports for Consumption **158**
Imports by Country of Origin **159**
Selected U.S. Monthly Data **160**

Textile Organon

Charles A. Whitehead, *Publisher & Editor*
Michael R. Kemp, *Managing Editor*
Dorothy A. Driscoll, *Circulation Manager*

An arrangement of authentic market data, especially important to the United States Man-Made Fiber industry, published monthly in the interest of good business.

Copyright 1981 by Textile Economics Bureau, Inc. All rights reserved. This booklet may be reproduced in part if credit is given.

Subscription rates as of July 1981 (payable in U.S. dollars or equivalent, with order):

	U.S.A.	OTHER
Annually (1 year only)	$125.00	$187.50
Schools & Nonprofit	25.00	25.00
Single Issues:		
June	12.50	18.75
November	12.50	18.75
All Others	10.00	15.00

All issues will be sent to U.S. subscribers by first class mail and those to all other countries by airmail.

A publication of the
Textile Economics Bureau, Inc.
101 Eisenhower Parkway · Roseland, New Jersey 07068
Telephone (201) 228-1107

U.S. MAN-MADE FIBER PRODUCERS

ALBANY INTERNATIONAL · MONOFILAMENT PLANT•
(formerly Newton Filaments, Inc.)
EXECUTIVE OFFICE: 156 S. Main Street, Homer, NY 13077
Fluoropolymers Homer, NY *Halar, Kynar, Teflon, Tefzel* (monofil)
Nylon 6, 66, & 612 Homer (monofil)
Polyester Homer (monofil regular & hydrolysis resistant)

ALLIED FIBERS AND PLASTICS COMPANY
EXECUTIVE OFFICE: 1411 Broadway, New York, NY 10018
REGIONAL SALES: 400 N. Tustin Ave., Santa Ana, CA 92705
1775 The Exchange, Suite 160, Atlanta, GA 30339
2100 Fiber Park Dr., Dalton, GA 30720
Friendship Center Office Park, Suite 108, Greensboro, NC 27409
64 South Miller Rd., Akron, OH 44313
Nylon 6 Columbia, SC & Hopewell, VA *A.C.E., Anso, Anso X, Anso IV, Caprolan, Nypel* (yarn, monofil & staple)
Polyester Moncure, NC *A.C.E.* (yarn & monofil)

AMERICAN ENKA COMPANY•
A PART OF AKZONA, INC.
EXECUTIVE OFFICE: Enka, NC 28728
REGIONAL SALES: 1529 McFadden Ave., Santa Ana, CA 92705
530 Fifth Ave., New York, NY 10036
616 Green Valley Rd., Greensboro, NC 27404
Suite 524, Uptain Bldg., Chattanooga, TN 37411
Rayon Lowland, TN *Absorbit, Enkaire, Enkrome, Fiber 700, IT* (staple)
Nylon 6 Enka, NC, Central, SC & Lowland *Crepeset, Enka, Enkaloft, Enkalure, Enkasheer, Enkatron, Multisheer, Phase 7, Softalon, Zantrel* (yarn, monofil & staple)
Polyester Central & Lowland *Encron, Encron 8, Enka, Golden Glow, Golden Touch, Silky Touch, Strialine, Ultra Touch* (yarn & staple)

NOTES & DEFINITIONS FOR THE DIRECTORY

This directory separates the listing into (1) the cellulosic plus the non cellulosic fibers (except olefin), (2) olefin fiber and (3) textile glass fiber.

• means that the company produces olefin fiber as well as other man-made fiber(s). For example, Albany International produces olefin fiber (page 149) as well as nylon, polyester & fluoropolyester (see above).

Unless shown separately, the Head Sales Office address is the same as the Executive Office address.

* indicates that a new plant, or facilities for producing a new product at an existing plant, is in the planning or construction stage; such facilities are not expected to be operable before 1982 or later.

The localities shown are the plant sites.

Yarn means filament yarn. No attempt is made to identify high tenacity vs. textile tenacity, nor textured or BCF vs. regular, non cellulosic yarns.

Monofil means an extruded monofilament and may be either a round or a rectangular (ribbon) cross section.

Staple, **tow** and **fiberfill** are self-explanatory.

Captive means that most or all of the fiber produced is consumed by the company in a vertical operation, i.e., little or none of the fiber is for sale as such.

In the olefin entries:

Film includes **Slit**: tape produced by slitting an already attenuated wide sheet of olefin film; and **Split**: fibrillated slit film.

Not included in the survey is the slit "fiber" used for decorative or tying ribbons and such.

Rope includes braided & twisted rope as well as filler or core fiber.

Cordage is under 3/16" and includes tying and harvest (baler & binder) twine.

Carpet Backing is self explanatory.

Industrial Goods means bags, bale wrap & protective covers, agricultural cloth, tarps & pool covers, etc.

GENERIC NAMES & TRADEMARKS

The generic fiber names used in this survey are mainly those promulgated by the U.S. Federal Trade Commission. Following are those generic names (in **bold type**) and a brief description of the fibers covered by each name.

The *italicized* words are trademarks. All other fiber names are generic and are shown in regular type.

CELLULOSIC (ARTIFICIAL) FIBERS

Acetate. Cellulose acetate. Cigarette filtration tow is excluded.

Triacetate. Cellulose acetate, wherein not less than 92% of the hydroxyl groups are acetylated.

Rayon. Regenerated cellulose, including substitutions for not more than 15% of the hydrogens of the hydroxyl groups. Includes high wet modulus fiber.

The viscose rayon yarns are identified as ind (industrial or high tenacity yarn) and reg (regular or textile yarn).

NON-CELLULOSIC (SYNTHETIC) FIBERS

Acrylic. At least 85% acrylonitrile by weight.

Modacrylic. 35% to 84% acrylonitrile by weight, except when it qualifies as rubber.

Nylon. A long chain synthetic polyamide in which less than 85% of the amide linkages are attached directly to two aromatic rings. The types are identified as 6, 66, etc.

Aramid. A long chain synthetic polyamide in which at least 85% of the amide linkages are attached directly to two aromatic rings.

Olefin. At least 85% ethylene, propylene or other olefin units by weight, except amorphous (noncrystalline) polyolefins qualifying as rubber. **E** means Polyethylene and **P** means Polypropylene. Also see adjoining notes on olefin fiber.

Polyester. At least 85% by weight of an ester of a substituted aromatic carboxylic acid, including but not restricted to substituted terephthalate units, and parasubstituted hydroxybenzoate units.

Saran. At least 80% vinylidene chloride by weight.

Spandex. At least 85% of segmented polyurethane.

Vinyon. At least 85% vinyl chloride by weight.

Not covered in this survey are fibers which would fall under the FTC's generic designations of rubber, metallic and novoloid. Fibers falling under the FTC designations of anidex, azlon, nytril and vinal are not produced in the United States.

TEXTILE GLASS FIBER

A fiber produced in two primary forms, namely continuous strand and staple sliver. Continuous strand is a drawn fiber (i.e., from a textile-type bushing), while staple sliver, which is produced in relatively small amounts, in current practice is a blown fiber. Textile glass fiber thus ***does not*** include the substantial poundages of blown glass wool and pack, e.g., mat for air & liquid filtration, acoustical & thermal insulation, battery mats & separators and underground pipe wrap (except reinforcing).

Yarn & Strand means continuous filament yarn and strand packaged for sale as such. Includes the yarn and strand used in the manufacture of nonwoven scrim for sale as such.

Roving means two or more ends of untwisted strand. Includes spun strand roving (a single, continuous strand looped back on itself to give the equivalent of two or more strands) and roving for making woven roving.

Mat means mat in any nonwoven form as made from a continuous filament, i.e., continuous strand mat (filaments bonded with a suitable binder to form a membrane) and chopped strand mat (½" to 3" strands deposited in a random manner and resin-bonded).

Chopped means chopped yarn, strand or roving (⅛" to 3 ¼" length). **Milled** means hammer-milled yarn, strand or roving (1/32" to ¼" length).

Staple Yarn & Sliver is a blown fiber, as noted, and means ribbons of generally parallel glass staple (3" to 15" random lengths) with or without a filament yarn reinforcement, with or without a binder, and slightly condensed to an approximately uniform cross section.

AMERICAN CYANAMID COMPANY, FIBERS DIVISION
EXECUTIVE OFFICE: Wayne, NJ 07470
REGIONAL SALES: One Penn Plaza, New York, NY 10019
8309 Wilkinson Blvd., Charlotte, NC 28237
Acrylic Santa Rosa, FL *Creslan* (staple & tow)

AMERICAN HOECHST CORPORATION
EXECUTIVE OFFICE: 202-206 North, Somerville NJ 08876

HOECHST FIBERS INDUSTRIES DIVISION
EXECUTIVE OFFICE: 1515 Broadway, New York, NY 10036
REGIONAL SALES: 5821 Park Rd., Charlotte, NC 28209
California Mart, 110 E. 9th St., Los Angeles, CA 90015
Polyester Spartanburg, SC *Trevira* (yarn & staple);
Delaware City, DE (monofil)

AMETEK INC., SPECIAL FILAMENTS DIVISION•
EXECUTIVE OFFICE: Box 339, Odenton, MD 21113
Nylon 6, 66, 612 & 11 Odenton, MD (monofil)
Polyester Odenton (monofil)
Saran Odenton (monofil)

AVTEX FIBERS INC.
EXECUTIVE OFFICE: Building #9, Executive Mall, P.O. Box 880, Valley Forge, PA 19482
SALES OFFICE: 1185 Avenue of the Americas, New York, NY 10036
REGIONAL SALES: 1 Fairview Plaza, 5950 Fairview Rd., Suite 501, Charlotte, NC 28210
Acetate Meadville, PA (yarn)
Rayon Front Royal, VA *Aviloc, Avril, Avril II, Avril III, Avril Prima, Fibers 40 & 43* (ind yarn & staple)
Polyester Lewistown, PA *Avlin* (yarn)
Vinyon Meadville (staple)

BADISCHE CORPORATION
EXECUTIVE OFFICE: Williamsburg, VA 23185
REGIONAL SALES: 5505 East Carson St., Lakewood, CA 90713
300 West Emory St., Emory Square Bldg., Dalton, GA 30720
111 West 40th St., New York, NY 10018
Acrylic Williamsburg, VA *Zefran* (staple)
Nylon 6 Anderson, SC *Zeftron* (yarn & staple)

Badische Corp. has carpet yarn spinning plants at Allendale, SC and Sylvania, GA.

BERKLEY & CO. INC.•
EXECUTIVE OFFICE: Highways 9 & 71, Spirit Lake, IA 51360
Nylon 6 Spirit Lake, IA (monofil)

CAMAC CORPORATION•
EXECUTIVE OFFICE: P.O. Box 1004, Bristol, VA 24201
Nylon 6 Bristol, VA *Camalon* (yarn)

CELANESE FIBERS COMPANY•
A DIVISION OF CELANESE CORPORATION
EXECUTIVE OFFICE: P.O. Box 32414, Charlotte, NC 28232
MARKETER: Celanese Fibers Marketing Company, P.O. Box 32414 Charlotte, NC 28232
REGIONAL SALES: 110 E. 9th St., Room A 1229, Los Angeles, CA 90015
6650 Powers Ferry Rd. N.W., Atlanta, GA 30339
1211 Avenue of the Americas, New York, NY 10036
2950 W. Market St., Akron, OH 44313
Acetate Cumberland, MD (Amcelle), Rock Hill, SC (Celriver) & Narrows, VA (Celco) *Celanese* (yarn, staple & tow)
Triacetate Cumberland & Rock Hill *Arnel* (yarn, staple & tow)

CORTLAND LINE COMPANY
EXECUTIVE OFFICE: 67 E. Court St., P.O. Box 1362, Cortland, NY 13045
Nylon 6 Cortland, NY (monofil - captive)

COURTAULDS NORTH AMERICA INC.
EXECUTIVE OFFICE: 104 West 40th St., New York, NY 10018
REGIONAL SALES: P.O. Box 2648, Mobile, AL 36652
Rayon Le Moyne, Mobile County, AL *Coloray, Fibro* (staple)
Nylon 6 Le Moyne *Courtaulds, Shareen, Shareen-Plus, Shareen-SSS, Shareen-UFD* (yarn & monofil)

E. I. DU PONT DE NEMOURS & COMPANY (INC.)•
TEXTILE FIBERS DEPARTMENT•
EXECUTIVE OFFICE: Wilmington, DE 19898
REGIONAL SALES: 5500 Union Pacific Ave., City of Commerce, CA 90022
2 N. La Salle St., Chicago, IL 60602
350 Fifth Ave., New York, NY 10118
6250 Fairview Rd., Charlotte, NC 28234
2770 W. Market St., Akron, OH 44313
50 North Broadway, Rumford, RI 02916
300 Franklin Bldg., Eastgate Center, Chattanooga, TN 37411
Acrylic Camden, SC & Waynesboro, VA *Orlon* (staple & tow)
Fluorocarbon Richmond, VA *Teflon* TFE & FEP fluorocarbon fiber (yarn, monofil, staple, tow & flock)
Nylon 66 Seaford, DE, Camden, SC, Chattanooga, TN and Martinsville, Richmond & Waynesboro, VA *Antron, Cantrece, Cordura, Du Pont, Hyten* (yarn, monofil, staple & tow)
Aramid Richmond *Kevlar* (yarn), *Nomex* (yarn, staple & tow)
Polyester Kinston & Wilmington, NC, Camden & Charleston, SC and Chattanooga & Old Hickory, TN *Dacron, Hollofil* (yarn, staple, tow & fiberfill), *Reemay* (spunbonded), *Sontara* (spunlaced)
Spandex Waynesboro *Lycra* (fused multifil or coalesced monofil)

POLYMER PRODUCTS DEPARTMENT
EXECUTIVE OFFICE: see listing above
Nylon 6, 66, 612 & Polyester Parkersburg, WV *Dacron, Dymetrol, Tynex, Vylor* (monofil of 50 denier & coarser)

EASTMAN KODAK COMPANY
CAROLINA EASTMAN COMPANY
EXECUTIVE OFFICE: Kingsport, TN 37662
Polyester Columbia, SC *Kodel* (yarn & staple)

TENNESSEE EASTMAN COMPANY
EXECUTIVE OFFICE: Kingsport, TN 37662
MARKETER: Eastman Chemical Products, Inc., Fibers Division, Kingsport, TN 37662
REGIONAL SALES: California Mart, 110 E. 9th St., Los Angeles, CA 90079
1133 Avenue of the Americas, New York, NY 10036
Acetate Kingsport, TN *Chromspun, Estron* (yarn)
Modacrylic Kingsport *Verel* (staple)
Polyester Kingsport *Kodel* (yarn & staple)

FIBER INDUSTRIES, INC. (subsidiary of Celanese Corporation)•
EXECUTIVE OFFICE: P.O. Box 10038, Charlotte, NC 28237
MARKETER: Celanese Fibers Marketing Company - see listing opposite
Polyester Salisbury & Shelby, NC and Darlington & Greenville, SC *Angelette, ECF, Fortrel, Lambda, PolarGuard, Serene, Superba* (yarn, staple, tow & fiberfill)

FIRESTONE FIBERS & TEXTILES COMPANY
DIVISION OF FIRESTONE TIRE & RUBBER COMPANY
EXECUTIVE OFFICE: P.O. Box 1278, Gastonia, NC 28052
Nylon 6 Hopewell, VA (yarn & monofil)
Polyester Hopewell (yarn)

GLOBE MANUFACTURING CO.
EXECUTIVE OFFICE: 456 Bedford St., Fall River, MA 02720
Spandex Fall River, MA & Gastonia, NC *Cleerspan, DC-100, DC-700, Glospan* (fused multifil)

THE GOODYEAR TIRE & RUBBER COMPANY,
CHEMICAL DIVISION
EXECUTIVE OFFICE: Akron, OH 44316
Polyester Scottsboro, AL & Point Pleasant, WV (yarn - captive)

GUILFORD MILLS, GAINESVILLE DIVISION
EXECUTIVE OFFICE: 4925 West Market St., Greensboro, NC 27402
PLANT OFFICE: 455 Osborne St., S.E., Gainesville, GA 30501
Nylon 6 Gainesville, GA (yarn & monofil - captive)

HANOVER MILLS, INCORPORATED
(subsidiary of Falk Fibers & Fabrics Inc.)
EXECUTIVE OFFICE: Nash St., Box 426, Hillsborough, NC 27278
REGIONAL SALES: 1450 Broadway, New York, NY 10018
Nylon 6 Yanceyville, NC *Hanover* (yarn & monofil)

JOHNSON FILAMENTS, INC. (subsidiary of JWI Ltd.)
EXECUTIVE OFFICE: Industrial Ave., Williston, VT 95495
Nylon 6/66 Williston, VT (monofil)
Polyester Williston (monofil)

KAYSER-ROTH CORPORATION, YARN PROCESSING DIVISION
EXECUTIVE OFFICE: 2303 W. Meadowview Rd., Greensboro, NC
Nylon 66 Creedmoor, NC (yarn - captive) 27407

MONOFILAMENTS, INC.
EXECUTIVE OFFICE: 1401 Hopeman Pkwy., Waynesboro, VA 22980
Nylon 6/66 Waynesboro, VA (monofil)
Polycarbonate Waynesboro (monofil)
Polyester Waynesboro (monofil)

MEYERS FIBERS, INC. •
EXECUTIVE OFFICE: P.O. Box 177, 230 Fairhill St., Willow Grove, PA
REGIONAL SALES: 4 Park Ave., New York, NY 10016 19090
Polyester Ansonville, NC (yarn)

MONSANTO COMPANY
EXECUTIVE OFFICE: 800 N. Lindbergh Blvd., St. Louis, MO 63166
MONSANTO TEXTILES COMPANY
REGIONAL SALES: 110 E. 9th St., Los Angeles, CA 90015
1401 Dove St., Newport Beach, CA 92663
320 Interstate North Pkwy., Atlanta, GA 30339
Merchandise Mart, 222 North Bank Dr., Chicago, IL 60654
1114 Avenue of the Americas, New York, NY 10036
6230 Fairview Rd., Charlotte, NC 28210
260 Springside Dr., P.O. Box 5444, Akron, OH 44313
Acrylic Decatur, AL *Acrilan, Bi-Loft, Fi-Lana, Pa-Qel, Remember, So-Lara* (staple & tow)
Modacrylic Decatur *SEF* (staple & tow)
Nylon 66 Pensacola, FL & Greenwood, SC *Blue C, Cadon, Cumuloft, Ultron, Ultron Z* (yarn, monofil & staple), *Cerex* (spunbonded)
Polyester Decatur *Blue C* (yarn & staple)
MONSANTO POLYMERS AND RESINS COMPANY
SALES OFFICE: 800 N. Lindbergh Blvd., St. Louis, MO 63166
Nylon 66 Pensacola *AstroTurf* (recreational & landscaping surfaces)

NEWTON FILAMENTS - see Albany International

NORTH AMERICAN RAYON CORPORATION
EXECUTIVE OFFICE: Waters Edge Office Park, 4900 Waters Edge Dr., Suite 295, Raleigh, NC 27606
REGIONAL SALES: 500 Fifth Ave., New York, NY 10110
Rayon Elizabethton, TN (ind & reg yarn and tow)

OMEGA YARNS, INC. (subsidiary of Tietex Corp.)
(includes former Texfi facility)
EXECUTIVE OFFICE: Blackstock Rd., P.O. Box 6218, Spartanburg, SC
SALES OFFICE: 183 Madison Ave., New York, NY 10017 29304
Polyester Asheboro, NC (yarn)

SHAKESPEARE COMPANY, MONOFILAMENT DIVISION
SALES OFFICE: 1801 Main St., P.O. Box 246, Columbia, SC 29202
Nylon 6/66 Columbia, SC *Sooflex, Superflex, S*$_3$, *Wonderthread* (monofil)
Polyester Columbia *Shakespeare Wonderthread* (monofil)

STAR FIBERS, INC.
EXECUTIVE OFFICE: 136 Fuller Rd., Albany, NY 12205
REGIONAL SALES: Edgefield, SC 29824
Nylon 6 Edgefield, SC *Starbrite* (staple)

TEXFI INDUSTRIES INC. - see Omega Yarns

UNIROYAL TEXTILE, DIVISION OF UNIROYAL, INC.
R & D DEPARTMENT: P.O. Box 300, Winnsboro, SC 29180
Nylon 6 Shelbyville, TN (monofil - captive)

UNIVERSAL POLYMER PRODUCTS CORPORATION
(subsidiary of Falk Fibers & Fabrics Inc.)
EXECUTIVE OFFICE: see Hanover Mills on page 148
Polyester Fuquay-Varina, NC (yarn & monofil)

WELLMAN, INC., MAN-MADE FIBER DIVISION
EXECUTIVE OFFICE: 75 Federal St., Boston, MA 02110
REGIONAL SALES: 1200 East Morehead St., Charlotte, NC 28204
Nylon 6 Johnsonville, SC (monofil)
Nylon 66 Johnsonville *Wellon, Wellstrand* (staple, tow & tops & monofil)
Polyester Johnsonville *Wellene* (staple, tow & tops & monofil)

OLEFIN FIBER

ACS INDUSTRIES, INC.
EXECUTIVE OFFICE: 71 Villanova St., Woonsocket, RI 02895
PLANT: Woonsocket, RI (P yarn & staple)

ALBANY INTERNATIONAL - MONOFILAMENT PLANT
(formerly Newton Filaments, Inc.)
EXECUTIVE OFFICE: see listing on page 147
PLANT: Homer, NY (P film)

AMERICAN MANUFACTURING COMPANY
EXECUTIVE OFFICE: 206 Willow Ave., Honesdale, PA 18431
REGIONAL SALES: 20810 Fordyce Ave., Carson, CA 90749
5854 Hollis St., Emeryville, CA 94608
1555 Marshall St., P.O. Box 52134, Jacksonville, FL 32201
6002 North 51st St., Tampa, FL 33610
P.O. Box 3, Central of Ga. RR Warehouse 5, Savannah, GA 31402
500 Country Club Dr., Bensenville, IL 60106
1523 St. Ferdinand St., New Orleans, LA 70117
139 California St., Newton, MA 02158
1715 South 11th St., St. Louis, MO 63104
1313 Old River Rd., Cleveland, OH 44113
1501 Preble Ave., Pittsburgh, PA 15233
2609 Leeland St., Houston, TX 77003
2507 S. 300 West St., Salt Lake City, UT 84115
5050 First Avenue South, Seattle, WA 98134
HONESDALE ROPE DIVISION
PLANT: Honesdale, PA (E & P monofil & film)
LAFAYETTE ROPE DIVISION
PLANT: Lafayette, LA *Amco, American, Bondtie, Floterope* (E & P monofil)

AMETEK INC., SPECIAL FILAMENTS DIVISION
EXECUTIVE OFFICE: see listing on page 148
PLANT: Odenton, MD (E & P monofil)

AMOCO FABRICS COMPANY, PATCHOGUE PLYMOUTH DIVISION
EXECUTIVE OFFICE: 550 Interstate North Pkwy., Atlanta, GA 30339
REGIONAL SALES: 15377 Del Prado, Hacienda Heights, CA 91745
P.O. Box 911, Dalton, GA 30720
PLANTS: Roanoke, AL, Bainbridge, Hazlehurst & Nashville, GA and Afton, VA (P yarn, monofil, film & staple)
The company produces *Needl Bac, Poly Bac* & *Poly Bac FLW* primary carpet backing; *Action Bac* secondary carpet backing; *Propex* industrial goods; and *Marquesa Lana, Patlon* & *Patlon Plus* yarn at these locations.

ARLIN MFG. CO., INC.
EXECUTIVE OFFICE: 239 Industrial Ave., Lowell, MA 01853
PLANT: Lowell, MA (P film)

ARMSTRONG WORLD INDUSTRIES, INC. (formerly Armstrong Cork Company)
EXECUTIVE OFFICE: Lancaster, PA 17604
PLANT: Charlotte, NC (P film - captive)
The company weaves carpet backing here

BEMIS COMPANY, INC.
EXECUTIVE OFFICE: 800 Northstar Center, Minneapolis, MN 55402
REGIONAL SALES: 2400 S. Second St., St. Louis, MO 63104
90 Park Ave., New York, NY 10016
PLANT: St. Louis, MO (P film)

BERKLEY & CO. INC.
EXECUTIVE OFFICE: see listing on page 148
PLANT: Spirit Lake, IA (E & P monofil - captive)

BLUE MOUNTAIN EXTRUSIONS
EXECUTIVE OFFICE: P.O. Box 100, Anniston, AL 36202
PLANT: Anniston, AL *Gold Medal, Poly Autotwine, Polylasting, Poly Macramé, TY-EZ Polytape, Tylon, Tytite* (E & P film cordage and industrial tape)

BRIDON CORDAGE INC.
EXECUTIVE OFFICE: 909 16th St., Albert Lea, MN 56007
PLANT: Albert Lea, MN (P film cordage)

CAMAC CORPORATION
EXECUTIVE OFFICE: see listing on page 148.
PLANT: Bristol, VA (P yarn)

CELANESE FIBERS COMPANY
EXECUTIVE OFFICE: see listing on page 148
PLANT: Moultrie, GA (P film captive)
The company produces *Mirafi 100X, 500X, 600X* & *700X* fabrics
Also see text page 155

CHASE BAG COMPANY
EXECUTIVE OFFICE: 2 Greenwich Plaza, Greenwich, CT 06830
PLANTS: Orange, CA & New Orleans LA (P film industrial goods)

CHEVRON FIBERS, INC. (a subsidiary of Chevron Chemical Co.)
EXECUTIVE OFFICE: 575 Market St., San Francisco, CA 94105
POLYLOOM PRODUCTS
HEADQUARTERS: 350 North Market St., Suite 201, Dayton, TN 37321
PLANT: Dayton, TN *Polyloom* (P split film)
VECTRA PRODUCTS
HEADQUARTERS: 7310 Ritchie Highway, Suite 600, Glen Burnie, MD 21061
SALES OFFICES: 1514 West Walnut Ave., Dalton, GA 30720
1200 State Street, Perth Amboy, NJ 08861
PLANT: Odenton, MD *Vectra* (P yarn & staple)

THE COLUMBIAN GROUP
DIVISION OF COLUMBIAN ROPE COMPANY
EXECUTIVE OFFICE: 1 Columbian Drive, Auburn, NY 13021
REGIONAL SALES: 90 Charter Oak Ave., San Francisco, CA 94124
600 St. George Ave., Jefferson, LA 70181
1003 Medina St., Houston, TX 77012
PLANTS: Jefferson, LA & Auburn, NY *Manipro, Poly K, Poly Twine, Polypro 6, Radiant Twine* (E & P monofil and film rope & cordage)

CONCORDE FIBERS, INC.
EXECUTIVE OFFICE: P.O. Box 98, Highway 45, Jamestown, SC 29453.
PLANT: Jamestown, SC (P yarn)

CROWE ROPE COMPANY
EXECUTIVE OFFICE: Warren, ME 04861
PLANT: Warren, ME *Crowelon* (P monofil rope)

CROWN ZELLERBACH CORPORATION,
NONWOVEN FABRICS DIVISION
EXECUTIVE OFFICE: 1 Bush St., San Francisco, CA 94119
SALES HEADQUARTERS: P.O. Box 1115, Camas, WA 98607
PLANT: Camas, WA *Fibretex* (P spunbonded)

E. I. DU PONT DE NEMOURS & COMPANY (INC.)
TEXTILE FIBERS DEPARTMENT
EXECUTIVE OFFICE: see listing on page 148
PLANTS: Old Hickory, TN & Richmond, VA *Typar* (P spunbonded), *Tyvek* (E spunbonded)

ELIZABETH WEBBING MILLS CO., INC.
EXECUTIVE OFFICE: 521 Roosevelt Ave., Central Falls, RI 02862
PLANT: Central Falls, RI (P film)

ENSIGN-BICKFORD INDUSTRIES, INC., FILM FIBERS DIVISION
EXECUTIVE OFFICE: 660 Hopmeadow St., Simsbury, CT 06070
PLANT: Simsbury, CT (P film)

EXXON CHEMICAL AMERICAS,
INDUSTRIAL TEXTILES DIVISION
DIVISION HEADQUARTERS: Hwy. 78 West, Summerville, SC 29483
MARKETING OFFICE: 380 Interstate North, Suite 375, Atlanta, GA 30339
PLANTS: Kingman, KS (P monofil & film cordage) & Summerville, SC (P monofil & film fabrics)
The company also weaves *Baxon* & *Fuzzbak* carpet backing and packaging fabrics at Summerville, SC.

FNT INDUSTRIES, INC.
EXECUTIVE OFFICE: 927 First Street, Menominee, MI 49858
PLANT: Menominee, MI (E monofil)

FIBER INDUSTRIES, INC. (subsidiary of Celanese Corporation)
EXECUTIVE OFFICE: see listing on page 148
MARKETER: Celanese Fibers Marketing Company see page 148
PLANT: Darlington, SC *Mirafi 140S* (melded fabric)

FIBERS & FABRICS OF GEORGIA, INC.
(subsidiary of Georgia Synthetics, Inc.)
EXECUTIVE OFFICE: P.O. Box 962, Elberton, GA 30635
PLANT: Elberton, GA (E & P yarn, monofil & multifil)
The company also weaves carpet backing here.

FIBERS SOUTH
(formerly Poly Fibers Division of Wellington Synthetics Industries)
EXECUTIVE OFFICES: P.O. Box 198, Trussville, AL 35173
PLANT: Trussville, AL (E & P film)

FIBRON, A PART OF AMERICAN ENKA
EXECUTIVE OFFICE: see American Enka listing on page 147
PLANT: Chattanooga, TN *Fibri-Cord, Fibri Knit, Fibrilawn, Fibrilon* (P film)

FILAMENT FIBER TECHNOLOGY INCORPORATED
EXECUTIVE OFFICE: 999 Airport Road, Lakewood, NJ 08701
PLANT: Lakewood, NJ (P yarn)

GENERAL FIBERS & FABRICS, INC.
EXECUTIVE OFFICE: Orchard Hill Rd., LaGrange Industrial Park, LaGrange, GA 30240
PLANT: LaGrange, GA (P film)
The company also weaves *Supertuft* carpet backing as well as bagging and woven polypropylene fabrics here.

GEORGIA SYNTHETICS, INC.
EXECUTIVE OFFICE: P.O. Box 962, Elberton, GA 30635
PLANT: Elberton, GA (E & P yarn, monofil & multifil)
Also note **FIBERS & FABRICS OF GEORGIA, INC.**, above.

GLADDING CORP., CORDAGE DIVISION
EXECUTIVE OFFICE: Gladding St., South Otselic, NY 13155
PLANT: South Otselic, NY (P monofil)

HERCULES INCORPORATED, FIBERS MARKETING DIVISION
EXECUTIVE OFFICE: 910 Market St., Wilmington, DE 19899
MARKETING HEADQUARTERS: 3169 Holcomb Bridge Rd., Suite 301, Norcross, GA 30071
REGIONAL SALES:
Mack Center II, From Rd., Ground Floor, Paramus, NJ 07652
PLANT: Oxford, GA *Herculon* (P yarn & staple)

THE HOOVEN & ALLISON COMPANY
EXECUTIVE OFFICE: 677 Cincinnati Ave., Xenia, OH 45385
PLANT: Xenia, OH (P film cordage)

JACKSON ROPE COMPANY,
DIVISION OF TUBBS CORDAGE COMPANY
EXECUTIVE OFFICE: see listing for Tubbs Cordage on page opposite
PLANT: Austin, TX (P monofil & film cordage & twine)

KELLER INDUSTRIES, INC.
EXECUTIVE OFFICE: 18000 State Rd. #9, North Miami, FL 33162
PLANT: Swainsboro, GA (P monofil - captive)
The company weaves outdoor furniture webs here.

KIMBERLY-CLARK CORPORATION
EXECUTIVE OFFICE: 1400 Holcomb Bridge Road, Roswell, GA 30076
PLANTS: Corinth, MS, Balfour, NC & Neenah, WI *Accord, Duraguard, Evolution* (P spunbonded), *Cyclean* (P spunbonded melt-blown laminate), *Evolution II, Safeguard CPF* (P spunbonded meltblown & P meltblown)

LAMBETH CORPORATION
EXECUTIVE OFFICE: 627 Tarkiln Hill Rd., New Bedford, MA 02745
PLANT: New Bedford, MA *Lambeth* (E & P monofil rope)

LAWRENCE HOSE COMPANY (a Consolidated Foods Company)
SALES OFFICE: P.O. Box 1838, Burlington, NC 27215
PLANT: Burlington, NC (E monofil - captive)

LORETEX, DIVISION OF OIVIND LORENTZEN, INC.
EXECUTIVE OFFICE: 522 Fifth Ave., New York, NY 10036
REGIONAL SALES: Northeastern Industrial Park, Guilderland Center, NY 12505
PLANT: Guilderland Center, NY (E film - captive)

6

MEYERS FIBERS, INC.
EXECUTIVE OFFICE: see listing on page 149
PLANT: Ansonville, NC (P yarn)

MONTAIR CORPORATION see Wellington Puritan Mills

NSI, INC.
ADMINISTRATIVE OFFICE: Box 658, Soperton, GA 30457
PLANT: Soperton, GA (P film - captive)
The company weaves carpet backing here.

NEWTON FILAMENTS, INC. see Albany International

NORTH CAROLINA FOAM INDUSTRIES
EXECUTIVE OFFICE: P.O. Box 112, Mount Airy, Industrial Park, Mount Airy, NC 27030
PLANT: Mount Airy, NC (P foamed film)

THE OSTERNECK COMPANY
EXECUTIVE OFFICE: P.O. Box 849, Lumberton, NC 28358
PLANT: Lumberton, NC (P film)
The company weaves carpet backing and industrial goods here.

PHILLIPS FIBERS CORPORATION
(subsidiary of Phillips Petroleum Company)
EXECUTIVE OFFICE: P.O. Box 66, Interstate 85, Greenville, SC 29602
REGIONAL SALES: 630 Fifth Ave., New York, NY 10020
PLANTS: Rocky Mount, NC & Spartanburg, SC *Marvess*
(P yarn, staple & tow)
The company also manufactures *Duon, Petromat* and *Supac* nonwoven fabrics at Seneca, SC.

SARLON INDUSTRIES, INC.
EXECUTIVE OFFICE: 775 N.W. 71st Street, Miami, FL 33150
PLANT: Miami, FL (P film)

SHUFORD MILLS, INC.
EXECUTIVE OFFICE: Highland Ave. & 15th St., N.E., Hickory, NC 28601
PLANT: Hickory, NC (P film cordage and twine)

SUNSHINE CORDAGE CORPORATION
EXECUTIVE OFFICE: 7250 N.W. 41st St., Miami, FL 33166
MARKETER: Poncar Plastic Corp., 7250 N.W. 41st ST., Miami, FL 33166
PLANT: Miami, FL *Cala Line, Oletex, Poncar, Sunshine, Sunylon, Sunypool* (E & P monofil)

SYNTHETIC INDUSTRIES
EXECUTIVE OFFICE: 309 Lafayette Rd., Chickamauga, GA 30707
PLANTS: Chickamauga, GA & Houston, TX (P film - captive)
The company weaves slit film carpet backing and industrial fabrics.

TUBBS CORDAGE COMPANY
EXECUTIVE OFFICE: 660 Bryant St., P.O. Box 7986, San Francisco, CA 94120
REGIONAL SALES: P.O. Box 709, Orange, CA 92666
2045 No. 15th Ave., Melrose Park, IL 60160
5501 Jefferson Highway, Harahan, Jefferson Parish, LA 70123
1355 West Front St., Plainfield, NJ 07063
1311 Palmer St., Houston, TX 77003
415 South Fidalgo St., Seattle, WA 98108
PLANT: Orange, CA *Loktite* (P monofil & film rope & cordage)
The company's Yarn Division operates carpet yarn spinning facilities at Dos Palos and Porterville, CA.
Also see listing for **JACKSON ROPE COMPANY** opposite.

TWINE PRODUCTS CORPORATION
EXECUTIVE OFFICE: 201 Dufossat, P.O. Box 15285, New Orleans, LA 70175
PLANT: New Orleans, LA (P film)

WALL INDUSTRIES, INC.
EXECUTIVE OFFICE: P.O. Box G, Beverly, NJ 08010
PLANT: Beverly, NJ (E & P monofil rope & cordage)

WALTRICH PLASTIC CORPORATION
EXECUTIVE OFFICE: P.O. Box 19, Route 522, Tennent, NJ 07763
PLANT: Tennent, NJ (P monofil)

WAYN-TEX INC.
EXECUTIVE OFFICE: 901 Delphine Ave., Waynesboro, VA 22980
REGIONAL SALES: 14014 Alondra Blvd., Santa Fe Springs, CA 90670
1805 S. Hamilton St., Dalton, GA 30720
PLANT: Waynesboro, VA *Beamette, Waynfil*
(E & P yarn & monofil & F film)
The company also weaves *Wayntuf* primary carpet backing, *Waynlok* secondary carpet backing and *Waynlon* industrial fabrics here.

WELLINGTON PURITAN MILLS (MONTAIR DIV.)
(formerly Montair Corporation)
EXECUTIVE OFFICE: Nelson St., Pilot Mountain, NC 27041
PLANT: Pilot Mountain, NC *Pur Ty, Welltite* (E & P monofil & film)

WELLINGTON SYNTHETIC FIBRES, INC.
EXECUTIVE OFFICE: 52 Courtland St., Paterson, NJ 07503
PLANTS: Leesville & Summerville, SC (P yarn, E & P monofil)
The company also weaves outdoor furniture webs at Leesville.

UNITED STATES ROPE COMPANY
EXECUTIVE OFFICE: 711 Hamilton Ave., Menlo Park, CA 94025
PLANT: Menlo Park, CA (P monofil)

The following companies are also producing a variety of textile products from olefin: **Conwed Corp.** *Conwed Plastic Netting* (P embossed film for netting); **E.I. du Pont de Nemours & Company (Inc.)** (E & P embossed film for netting); **Hercules Incorporated, Polymers Division** *Delnet* (E embossed film for netting); **Nalle Inc.** (P embossed film for netting); **Riegel Products Corporation** *Polyweb* (P meltblown); and **The 3M Company** (P spunbonded).

TEXTILE GLASS FIBER

CERTAINTEED CORPORATION
FIBER GLASS REINFORCEMENTS DIVISION
EXECUTIVE OFFICE: P.O. Box 860, Valley Forge, PA 19482
REGIONAL SALES: 205 Main Street, Suite F, Pleasanton, CA 94566
10061 Talbert Ave., Suite 200, Fountain Valley, CA 92708
Lake Frederica Apts., 3121 S. Semoran Dr., Orlando, FL 32809
17924 S. Halsted Street, Homewood, IL 60430
514 S. Main Street, Bel Air, MD 21014
1329 Pennsylvania Ave., Hagerstown, MD 21740
106 Ayers Court, Apt. 2A, Teaneck, NJ 07666
1540 S. Holland-Sylvania Road, Maumee, OH 43537
Rte. 11 - Patch Dr., Spartanburg, SC 29302
P.O. Box 3059, Arlington, TX 76013
2301 N.E. [illegible]st St., Vancouver, WA 98665
PLANT: Wichita Falls, TX (roving, woven roving, mat, chopped strand & combination product)

JOHNS-MANVILLE SALES CORPORATION,
FILTRATION & MINERALS DIVISION
EXECUTIVE OFFICE: P.O. Box 5108, Ken Caryl Ranch, Denver, CO 80217
REGIONAL SALES: 7500 Dutch Rd., Waterville, OH 43566
PLANTS: Waterville, OH & Etowah, TN *Chop-Pak* (chopped strand)

LUNDY TECHNICAL CENTER
EXECUTIVE OFFICE: Pompano Beach, FL 33064
PLANT: Pompano Beach, FL *RoMHOglas* (metallized glass fiber roving & strand and nonwoven metallized glass mat)

NICOFIBERS INC.
EXECUTIVE OFFICE: Ironpoint Rd., Shawnee, OH 43782
PLANT: Shawnee, OH *Conformat, Consurmat, Surmat* (mat)

OWENS-CORNING FIBERGLAS CORPORATION
EXECUTIVE OFFICE: Fiberglas Tower, Toledo, OH 43659
REGIONAL SALES: 5933 Telegraph Road, Los Angeles, CA 90040
477 Forbes Blvd., S. San Francisco, CA 94080
4950 W. Kennedy Blvd., Suite 301, Tampa, FL 33609
1155 Hammond Dr., Bldg. C - Suite 3210, Atlanta, GA 30328
2215 Sanders Rd., Northbrook, IL 60062
10170 Linn Station Rd., Suite 320, Louisville, KY 40223
60 Williams St., Wellesley Hills, MA 02181
1055 36th St. S.E., Grand Rapids, MI 49508
2075 W. Big Beaver Rd., Troy, MI 48084
700 White Plains Rd., Scarsdale, NY 10583
2200 Victory Pkwy., Cincinnati, OH 45206
5700 Pearl Rd., Suite 104, Cleveland, OH 44129
997 Old Eagle School Rd., Wayne, PA 19087
12830 Hillcrest, Suite 216, Dallas, TX 75230
12301 N.E. 10th Place, Bellvue, WA 98005
PLANTS: Huntington, PA, Ashton, RI, Aiken & Anderson, SC, Jackson, TN & Amarillo, TX *Activa, Araton, Beta, Bi-Ply, Fiberglas, S Glass, S-2 Glass* (yarn, roving, spun roving, woven roving, mat, chopped, milled and staple yarn & sliver)

PPG INDUSTRIES, INC., FIBER GLASS DIVISION
EXECUTIVE OFFICE: One Gateway Center, Pittsburgh, PA 15222
REGIONAL SALES: 1700 E. Dyer Rd., Suite 200, Santa Ana, CA 92705
20 Tower Lane, Avon Park South, Avon, CT 06001
880 Johnson Ferry Rd., NE, Suite 220, Atlanta, GA 30342
7905 S. Cicero Ave., Room 211, Chicago, IL 60652
2155 West Big Beaver Rd., P.O. Box 3510, Troy, MI 48084
30 East 42nd St., New York, NY 10017
1601 East Garrison Blvd., Gastonia, NC 28052
767 East Turkeyfoot Lake Rd., Akron, OH 44319
4015 Executive Park Dr., Suite 100, Cincinnati, OH 45241
501 Office Center Dr., Ft. Washington, PA 19034
5629 FM 1960 West, Suite 100, Houston TX 77069
PLANTS: Lexington & Shelby, NC *Azdel* (yarn, roving, mat, chopped strand, woven roving & rubber reinforcements)

REICHHOLD CHEMICALS, INC.
EXECUTIVE OFFICE: 525 N. Broadway, White Plains, NY 10603
REGIONAL SALES: 107 S. Motor Ave., Azusa, CA 91702
120 S. Linden Ave., S. San Francisco, CA 94080
George C. Brandt, Inc. (Agent), 6500 Stapleton Dr. So., Denver, CO 80216
1700 Drew St., Suite 6, Clearwater, FL 33515
2250 N. Druid Hills Rd., Suite 148, Atlanta, GA 30329
814 Commerce Drive, Oak Brook, IL 60521
1657 Commerce Drive, Suite 17A, South Bend, IN 46628
P.O. Box 7212, Louisville, KY 40207
P.O. Box A, Andover, MA 01810
601-707 Woodward Heights Blvd., Detroit, MI 48220
George C. Brandt, Inc. (Agent), 2975 Long Lake Rd., St. Paul, MN 55113
975 North St., Suite 108, Jackson, MS 39202
726 Rockefeller St., Elizabeth, NJ 07202
640 Kreay Rd., Pittsford, NY 14534
P.O. Box 11051, Charlotte, NC 29209
105 Church St., Berea, OH 44017
11750 Chesterdale Rd., Cincinnati, OH 45246
20800 Center Ridge Rd., Cleveland, OH 44116
5310 E. 31st St., Tulsa, OK 74135
8383 Stemmons Freeway, Dallas, TX 75247
2800 North Loop West, Suite 515, Houston, TX 77018
2340 Taylor Way, Tacoma, WA 98401

CHEMGLAS DIVISION
PLANT: Irwindale, CA *Chemglas* (roving, chopped & milled)

FIBERGLASS DIVISION
PLANT: Nashville, TN (roving, woven roving, mat, chopped & milled)
The division also weaves roving and/or manufactures reinforcement mats here as well as at Huntington Beach, CA.

GLASS FIBER DIVISION
PLANT: Bremen, OH *Modiglass* (mat)

LOCATION OF U.S. MAN-MADE FIBER PRODUCT-PRODUCING PLANTS

STATES & AREA	RAYON & ACETATE	NON-CELLULOSIC						TEXTILE GLASS	GRAND TOTAL
		ACRYL	NYLON	OLEFIN	POLYESTER	OTHER	TOTAL		
NEW ENGLAND									
CONNECTICUT				1			1		1
MAINE				1			1		1
MASSACHUSETTS				2		1	3		3
RHODE ISLAND				2			2	1	3
VERMONT			1		1		2		2
TOTAL N.E.			**1**	**6**	**1**	**1**	**9**	**1**	**10**
MID-ATLANTIC									
DELAWARE			1		1		2		2
MARYLAND	1		1	2	1	1	5		6
NEW JERSEY				3			3		3
NEW YORK			2	4	1	1	8		8
PENNSYLVANIA	1			1	1	1	3	1	5
TOTAL MID-ATL.	**2**		**4**	**10**	**4**	**3**	**21**	**1**	**24**
PIEDMONT									
N. CAROLINA			3	9	8	1	21	2	23
S. CAROLINA	1	1	8	6	9		24	2	27
VIRGINIA	2	2	7	3	2	3	17		19
WEST VIRGINIA			1		2		3		3
TOTAL PIEDMONT	**3**	**3**	**19**	**18**	**21**	**4**	**65**	**4**	**72**
SOUTH									
ALABAMA	1	1	1	2	2		6		7
FLORIDA		1	2	2			5	1	6
GEORGIA				8			8		8
LOUISIANA				4			4		4
MISSISSIPPI				1			1		1
TENNESSEE	3	1	3	3	4		11	3	17
TEXAS				2			2	2	4
TOTAL SOUTH	**4**	**3**	**6**	**22**	**6**		**37**	**6**	**47**
MID-WEST & WEST									
CALIFORNIA				3			3	1	4
IOWA			1	1			2		2
KANSAS				1			1		1
MICHIGAN				1			1		1
MINNESOTA				1			1		1
MISSOURI				1			1		1
OHIO				1			1	3	4
WASHINGTON				1			1		1
WISCONSIN				1			1		1
TOTAL WEST			**1**	**11**			**12**	**4**	**16**
TOTAL # OF PLANTS	**9**	**6**	**31**	**67**	**32**	**8**	**144**	**16**	**169**
TOTAL # OF STATES	**6**	**5**	**12**	**27**	**11**	**6**	**30**	**9**	**30**

Acetate includes triacetate. Acryl means acrylic & modacrylic. Nylon includes aramid.
Other non-cellulosic includes 1 fluorocarbon, 1 fluoropolymer, 1 polycarbonate, 1 saran, 3 spandex and 1 vinyon.

(Continued from page 146)

because their production is a part of the total man-made fiber supply.

CHANGES IN THE DIRECTORY

Compared with the September 1980 directory listings of company-plant-product, the following companies have been delisted from the directory: Milliken & Company at Laurens, SC (nylon 6), Sunburst Yarns, Inc., at Afton, VA (nylon 6) and Plant Industries (Texas) Inc. at Houston, TX (olefin).

Under **nylon,** the West Conshohocken, PA plant of Allied has been delisted. Du Pont's plant at Chattanooga, TN for *Qiana* has been delisted. Also delisted have been the nylon 66 plants for Fiber Industries at Shelby, NC and Greenville, SC and Monsanto's Decatur, AL plant. Wellman, Inc., has been listed as a producer of nylon 6, as well as 66, at Johnsonville, SC.

Under **polyester,** a new producer, Omega Yarn at Asheboro, NC (the old Texfi facility), has been added. Under Monsanto the listings for Decatur & Sand Mountain, AL and Fayetteville, NC have been deleted. Note that the Fayetteville listing has been added to the one for Fiber Industries.

Under **olefin,** three new companies have been added, i.e., Camac Corporation at Bristol, VA; Filament Fiber Technology Inc. at Lakewood, NJ and Sarlon Industries at Miami, FL. Vectra Corporation is no longer listed separately but as part of Chevron Fibers. The aforementioned Afton, VA plant (formerly Sunburst Yarns) has been added to the Amoco listing and the Houston, TX plant (formerly Plant Industries (Texas) Inc.) has been added to the Synthetic Industries listing.

(Continued on page 155)

U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER & MANUFACTURES, COTTON MANUFACTURES & WOOL MANUFACTURES

THOUSAND POUNDS

	YEAR 1978			YEAR 1979			YEAR 1980			6 MONTHS 1981		
PRODUCTS	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]	IMPORTS	EXPORTS	BALANCE[a]
RAYON+ACETATE												
YARN+MONOFILAMENTS	25,729	20,737	4,992 **I**	13,271	30,790	17,519 **E**	8,302	26,390	18,088 **E**	5,974	14,410	8,436 **E**
STAPLE+TOW	41,125	86,904	45,779 **E**	16,529	106,507	89,978 **E**	10,306	71,072	60,766 **E**	7,995	32,194	24,199 **E**
WASTE	391	6,975	6,584 **E**	803	9,551	8,748 **E**	339	6,090	5,751 **E**	156	1,488	1,332 **E**
SUBTOTAL ABOVE	**67,245**	**114,616**	**47,371 E**	**30,603**	**146,848**	**116,245 E**	**18,947**	**103,552**	**84,605 E**	**14,125**	**48,092**	**33,967 E**
NON-CELLULOSIC FIBERS												
YARN+MONOFILAMENTS	52,208	174,417	122,209 **E**	20,004	290,822	270,818 **E**	19,614	355,323	335,709 **E**	9,187	233,787	224,600 **E**
STAPLE+TOW	60,486	428,946	368,460 **E**	39,319	658,335	619,016 **E**	35,568	732,473	696,905 **E**	29,195	394,503	365,308 **E**
WASTE	25,976	88,659	62,683 **E**	21,126	137,743	116,617 **E**	21,546	116,420	94,874 **E**	22,831	53,589	30,758 **E**
SUBTOTAL ABOVE	**138,670**	**692,022**	**553,352 E**	**80,449**	**1,086,900**	**1,006,451 E**	**76,728**	**1,204,216**	**1,127,488 E**	**61,213**	**681,879**	**620,666 E**
TOTAL FIBER ABOVE[b]	**205,915**	**806,638**	**600,723 E**	**111,052**	**1,233,748**	**1,122,696 E**	**95,675**	**1,307,768**	**1,212,093 E**	**75,338**	**729,971**	**654,633 E**
MAN-MADE FIBER MANUFACTURES[c]												
SLIVER, TOPS & ROVING	7,556	10,147	2,591 **E**	6,653	13,252	6,599 **E**	2,792	13,103	10,311 **E**	1,923	5,075	3,152 **E**
SPUN YARNS	45,378	21,759	23,619 **I**	25,648	34,181	8,533 **E**	22,850	32,845	9,995 **E**	12,660	27,968	15,308 **E**
THREAD & CRAFT YARNS	2,516	5,800	3,284 **E**	2,615	8,368	5,753 **E**	2,306	7,404	5,098 **E**	1,438	2,806	1,368 **E**
TIRE CORD & FABRIC	100	63,862	63,762 **E**	97	87,008	86,911 **E**	47	115,514	115,467 **E**	1	26,456	26,455 **E**
WOVEN FABRIC	87,760	165,707	77,947 **E**	64,577	228,634	164,057 **E**	67,283	249,769	182,486 **E**	47,069	118,832	71,763 **E**
KNIT FABRICS	12,443	9,756	2,687 **I**	8,011	16,413	8,402 **E**	5,985	23,232	17,247 **E**	1,057	12,989	11,932 **E**
NARROW FABRICS	9,387	12,025	2,638 **E**	8,947	12,531	3,584 **E**	8,137	25,471	17,334 **E**	4,324	13,097	8,773 **E**
APPAREL KNIT	242,397	48,644	376,539 **I**	184,497	60,472	299,136 **I**	187,745	127,098	251,423 **I**	79,972	68,073	124,308 **I**
NOT KNIT	182,786			175,111			190,776			112,409		
HOME FURNISHINGS	52,264	43,840	51,734 **E**	48,817	65,629	86,907 **E**	52,723	111,380	124,386 **E**	29,600	44,910	50,765 **E**
OTHER		60,158			70,095			65,729			35,455	
TOTAL MANUFACTURES	**642,587**	**441,698**	**200,889 I**	**524,973**	**596,583**	**71,610 E**	**540,644**	**771,545**	**230,901 E**	**290,453**	**355,661**	**65,208 E**
TOTAL MAN-MADE FIBER & MANUFACTURES	**848,502**	**1,248,336**	**399,834 E**	**636,025**	**1,830,331**	**1,194,306 E**	**636,319**	**2,079,313**	**1,442,994 E**	**365,791**	**1,085,632**	**719,841 E**
COTTON MANUFACTURES[d]	**845,421**	**355,745**	**489,676 I**	**746,096**	**477,960**	**268,136 I**	**810,930**	**523,094**	**287,836 I**	**468,532**	**208,731**	**259,801 I**
WOOL MANUFACTURES[e]	**129,369**	**12,567**	**116,802 I**	**109,543**	**15,592**	**93,951 I**	**103,288**	**24,264**	**79,024 I**	**52,755**	**6,928**	**45,827 I**

SOURCES: The man-made fiber import and export data are from the U.S. Bureau of the Census. The man-made, cotton and wool manufactures data are from *"Cotton and Wool Situation,"* a publication of the U.S. Department of Agriculture.

The total man-made fiber and manufactures import, export and balance data of this table cover the cellulosic and non-cellulosic fibers only; textile glass fiber is excluded.

a. **E** means a net export balance; **I** is a net import balance.

b. The fibers included are shown under "Total Man-Made Fiber Above" on pages 154 and 155 herewith.

c. Man-made fiber equivalent.

d. Raw cotton equivalent. Data are similar to those on page 37 of the March 1981 ORGANON.

e. Raw wool content. The data differ from those on page 37 of the March 1981 ORGANON to the extent that noils and waste are included here.

U.S. IMPORTS OF MAN-MADE FIBERS

ITEM	COMMODITY NUMBER AS OF 1/1/78	THOUSAND POUNDS					THOUSAND DOLLARS				
		1977	1978	1979	1980	6 MOS 1981	1977	1978	1979	1980	6 MOS 1981
RAYON+ACETATE											
YARN - SINGLES											
TEXTURED	310.0106 & .0206	k	1747	2695	912	257	k	2105	3903	1668	381
OTHER	310.0130 & .0230[a]	23388	23925	10495	7380	5714	23248	25268	13111	12222	8244
MONOFILAMENTS	309.0510 & .0610	NA	3		0	3	NA	10	1	0	16
STRIPS $1/LB & UNDER	309.2000 *	72	54	81	10		36	28	52	16	2
SUBTOTAL ABOVE		**23460**	**25729**	**13271**	**8302**	**5974**	**23284**	**27411**	**17067**	**13906**	**8643**
STAPLE	309.4320 & .4325	54054	37840	13949	7998	6879	24000	17382	8042	5653	4645
GROUPED FILAMENTS	309.3010 & .3110	3751	3285	2580	2308	1116	1804	1793	3677	5023	1173
SUBTOTAL ABOVE		**57805**	**41125**	**16529**	**10306**	**7995**	**25804**	**19175**	**11719**	**10676**	**5818**
WASTE ADVANCED & NOT ADVANCED	309.6015 & .7510	579	391	803	339	156	133	118	314	146	97
NON-CELLULOSIC FIBERS											
YARN - SINGLES											
TEXTURED - NYLON	310.0109 & .0209	14009	4625	953	3154	2097	16908	5167	1128	4089	3644
POLYESTER	310.0110 & .0210	26116	6068	1083	337	228	23931	6405	1589	780	350
OTHER	310.0114 & .0214	1092	657	153	195	170	1649	787	360	373	406
OTHER - NYLON	310.0149 & .0249	34178	24993	6105	3572	2239	31339	24736	8310	5687	3577
POLYESTER	310.0150 & .0250	12698	12740	7579	6672	2193	11122	13895	10230	9906	2937
OTHER	310.0170 & .0270[b]	2898	1252	1346	1417	874	3459	2150	2545	3149	1735
MONOFILAMENTS	309.0200 & .0330[c]	1274	1354	2365	4038	1293	2728	4415	6967	10243	3112
STRIPS OVER $1/LB	309.2100 & .2500 *	238	319	420	229	93	2396	2861	3267	2427	748
SUBTOTAL ABOVE		**92503**	**52208**	**20004**	**19614**	**9187**	**93532**	**60416**	**34396**	**36654**	**16509**
STAPLE - NYLON	309.4338	8206	6306	2364	1698	11471	5457	4794	2455	2365	12196
POLYESTER	309.4342	4240	7695	3087	1344	2420	1911	4082	2020	1184	1646
ACRYLIC	309.4345	16134	18185	13047	13296	6341	8720	10874	9925	11509	6048
OLEFIN	309.4346	} 21518	46	57	144	386	} 11840	44	54	146	197
OTHER	309.4355		21241	15766	14574	5324		12111	8998	9779	3932
GROUPED FILAMENTS											
NYLON	309.3030 & .3130	806	1025	719	1022	674	907	1213	924	1364	907
POLYESTER	309.3040 & .3140	924	529	44	129	176	1106	600	36	137	204
ACRYLIC	309.3050 & .3150	} 1105	3607	2910	2608	1412	} 1653	3515	3694	4331	3177
OTHER	309.3065 & .3165		1852	1325	753	991		1606	1348	1126	1396
SUBTOTAL ABOVE		**52933**	**60486**	**39319**	**35568**	**29195**	**31594**	**38839**	**29454**	**31941**	**29703**
WASTE, NOT ADVANCED - NYLON	309.6625	12983	14623	12843	11658	11461	2413	2778	2811	2899	3357
POLYESTER	309.6630	2509	5344	3333	5936	8227	295	519	470	1004	1604
ACRYLIC	309.6645	3582	3328	2395	2358	1631	847	863	587	726	540
OTHER	309.6660	3201	1497	1568	965	1284	789	357	461	305	356
NOILS & GARNETTED FIBERS	309.6000 & .7000 *	20	1	3	4	0	16	4	6	3	0
OTHER WASTE, ADVANCED	309.7525 - .7555	879	117	984	625	228	408	339	313	360	126
TOTAL MAN-MADE FIBER ABOVE		**250454**	**205915**	**111052**	**95675**	**75338**	**179115**	**150819**	**97598**	**98620**	**66753**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD											
YARN - PLIED											
TEXTURED - CELLULOSIC	310.1106	NA	26	2	0	24	NA	78	16	0	38
NON CELLULOSIC	310.1015[d] & .1109[e]	2619	3454	2196	1378	1547	3306	4323	2955	2141	2501
OTHER - CELLULOSIC	310.1030 & .1135[f]	562	300	25	97	16	877	349	56	334	89
NON CELLULOSIC	310.1050 & .1070[g]	203	366	300	389	141	362	934	949	1347	300
SPUN YARN - CELLULOSIC	310.4005 & .4030[h]	1021	937	585	508	172	1313	1565	1126	1225	384
OTHER	310.4015 & .4027[i]	25575	40669	20300	19387	10226	31274	52789	30821	33114	17879
OTHER YARNS - NES INCL. CHENILLE	310.6029 - .8000	725	2127	3748	2320	2179	1861	4951	11607	8196	6368
HANDWORK YARNS & SEWING THREAD	310.9000 - .9140	3320	2464	2561	2260	1409	8174	7493	8347	7793	5449
SLIVER, TOPS & ROVING	309.9000	4651	7322	6453	2708	1863	2842	3758	3584	2034	1367
TEXTILE GLASS FIBER	309.2800 & .2900[j]	21975	21844	10353	7350	5323	8302	10413	6124	6453	4454
GRAND TOTAL ABOVE		**311105**	**285424**	**157575**	**132072**	**98238**	**237426**	**237472**	**163183**	**161257**	**105582**

SOURCE: U S Census Bureau

NES Not elsewhere specified.

NA Not available

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

[a] Also includes 310.0510 & .0610.

[b] Also includes 310.0530, .0550, .0630 & .0650.

[c] Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

[d] There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

[e] Also includes 310.1110 & .1114.

[f] Also includes 310.2010 & .2110.

[g] Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

[h] Also includes 310.5005 & .5030.

[i] Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

[j] Chiefly roving. Also includes 309.9800 & .9900.

[k] Included in other non-cellulosic textured singles below.

U.S. EXPORTS OF MAN-MADE FIBERS

ITEM	COMMODITY NUMBER AS OF 1/1/78	THOUSAND POUNDS					THOUSAND DOLLARS				
		1977	1978	1979	1980	6 MOS 1981	1977	1978	1979	1980	6 MOS 1981
RAYON+ACETATE											
FILAMENT YARN[a]											
ACETATE TEXTURED	310.0006	24741	1946	3456	2585	168	22989	2228	4564	3574	215
OTHER											
RAYON HIGH TENACITY	310.0026	2696	17027[b]	26770[b]	24130[b]	14020[b]	3070	15339	24886	28135	16135
OTHER		2948					2997				
MONOFILAMENTS	309.0110	f	1413	521	149	77	f	1579	645	343	156
STRIPS	309.2210	f	351	43	66	145	f	308	58	61	84
SUBTOTAL ABOVE		**30385**	**20737**	**30790**	**26930**	**14410**	**29056**	**19454**	**30153**	**32113**	**16590**
STAPLE+TOW RAYON	309.4222	56719	80453	96844	64817	26456	31106	39534	55706	44031	19156
STAPLE ACETATE	309.4219	948	6451	9663	6255	5738	591	4783	7433	6145	2715
SUBTOTAL ABOVE		**57667**	**86904**	**106507**	**71072**	**32194**	**31697**	**44317**	**63139**	**50176**	**21871**
WASTE, ADVANCED & NOT ADVANCED	309.7400	12580	6975	9551	6090	1488	3713	2312	3684	2872	719
NON-CELLULOSIC FIBERS											
FILAMENT YARN[a]											
NYLON TEXTURED	310.0008 & .0009	29539	21392	44797	53773	39265	32204	28904	63602	72940	57921
HIGH TENACITY	310.0027	43790	31768[c]	46287[c]	57804[c]	35682[c]	43272	27057	43505	65037	45125
OTHER	310.0029	27144	11269	21223	24967	9786	39220	17282	31528	42082	18484
POLYESTER TEXTURED	310.0010	15595	29469	85579	114910	107439	19933	34540	105864	141835	121056
HIGH TENACITY	310.0032	35058	6187[c]	22407[c]	25202[c]	10234[c]	33752	6276	24507	27060	13355
OTHER	310.0034		6780[d]	8616[d]	7493[d]	5443[d]		6714	9591	8703	6492
OTHER TEXTURED	310.0014	7374	3671	9993	19005	7256	8201	5043	12163	23050	8214
OLEFIN	310.0040	7864	2747	1990	2520	1200	20745	2924	1998	2999	1629
OTHER	310.0044		4384	5050	5265	3018		12007	17181	18734	11433
MONOFILAMENTS, LESS THAN 60 DENIER		INCL. IN FILAMENT YARN ABOVE					INCL. IN FILAMENT YARN ABOVE				
MONOFILAMENTS, 60 DENIER & OVER											
NYLON		1337					3619				
OTHER		14558					26248				
MONOFILAMENTS, ALL DENIERS											
NYLON	309.0120		16566	14916	15307	4322		25173	30001	30854	10493
POLYESTER	309.0140		32942[e]	21349[e]	18985[e]	4583[e]		32013	24923	21987	6845
OTHER	309.0170		6209	5927	8665	2603		15875	18093	28813	9715
STRIPS	309.2220 & .2270		1033	2688	5427	2896		2493	4500	5181	3742
SUBTOTAL ABOVE		**182259**	**174417**	**290822**	**355323**	**233787**	**227194**	**216191**	**387980**	**488551**	**314504**
STAPLE NYLON	309.4240	23360	26221	33857	29306	16473	17302	21854	29779	40141	19352
POLYESTER	309.4242	118940	218674	307246	447290	247135	54734	97225	105284	285737	165937
ACRYLIC	309.4245	74288	109139	181112	145172	81848	44288	65489	109404	105204	59999
OLEFIN	309.4246	6859	1873	6910	3275	1095	9586	1245	6904	2571	1006
OTHER	309.4247		9672	16749	17751	10815		10141	19891	25654	18305
GROUPED FILAMENTS											
NYLON	309.3220	40	6239	10614	7282	2487	66	8333	13810	11747	4016
POLYESTER	309.3240	6449	37790[d]	78566[d]	54880[d]	16214[d]	4290	26537	66067	50247	17219
ACRYLIC	309.3250 & .3255	12314	19338	23281	27517	18436	10188	14758	18389	20408	14158
OTHER		125					407				
SUBTOTAL ABOVE		**242375**	**428946**	**658335**	**732473**	**394503**	**139861**	**243562**	**431434**	**529569**	**300592**
WASTE, ADVANCED & NOT ADVANCED											
NYLON	309.7620	66090	11232	18034	14520	7611	15406	4897	7514	9050	4577
POLYESTER	309.7630		48917	77424	61153	24692		12726	32029	25592	9691
ACRYLIC	309.7640		3793	4807	2352	3405		1142	1225	801	1084
OTHER	309.7660		24717	37478	38395	17881		6889	11950	13965	6667
TOTAL MAN-MADE FIBER ABOVE		**591356**	**806638**	**1233748**	**1308308**	**729971**	**446927**	**551490**	**969106**	**1152689**	**676305**
TEXTILE GLASS FIBER	309.2700 & .9700	29204	29230	47494	54407	18791	20779	23498	38867	54269	20384
GRAND TOTAL ABOVE		**620560**	**835868**	**1281242**	**1362715**	**748762**	**467706**	**574988**	**1007973**	**1206958**	**696689**

SOURCE: U.S. Census Bureau Report.

a. Includes thrown, singles and plied yarn.

b. Includes an undetermined amount of rayon tire cord and cord fabric.

c. Includes an undetermined amount of non-cellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

e. This figure is an obvious misclassification. Most of this poundage should be included in filament yarn.

f. Included in filament yarn.

CELANESE TO SELL MOULTRIE PLANT

Celanese Fibers Company is currently negotiating the sale of its olefin plant at Moultrie, GA to Dominion Textiles of Canada. Dominion Textiles will continue to operate the facility and produce civil engineering fabrics.

11

SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION

THOUSAND POUNDS

COUNTRY	A CELLULOSIC YARN, MONO & STRIPS			B NON-CELLULOSIC TEXTILE YARN			C N.C. INDUSTRIAL YARN, MONO & STRIPS			D CELLULOSIC STAPLE+TOW			E NON-CELLULOSIC STAPLE+TOW		
	1979	1980	6 MOS. 1981	1979	1980	6 MOS. 1981	1979	1980	6 MOS. 1981	1979	1980	6 MOS. 1981	1979	1980	6 MOS. 1981
CANADA	4619	3199	1188	28674	22343	15141	8272	9386	4402	7576	3928	4053	90696	76705	3042
COSTA RICA	51	53	2	3686	1795	1233	230	495	101	1337	549	5	3981	3269	2922
DOMINICAN REPUBLIC	54	123	3	3062	2502	745	675	1079	58	93	153	59	304	768	184
EL SALVADOR	651	262	148	3167	2176	1522	1249	316	247	552	557	359	6491	7774	4934
GUATEMALA	960	578	79	1899	2908	1528	319	1650	348	767	275	37	4344	7384	4571
HAITI	155	39	11	959	609	240	275	53	6	14	0	16	17	11	0
HONDURAS	10	0	0	3018	1538	720	907	18	11	1148	911	555	780	209	610
JAMAICA	22	32	6	942	453	244	32	6	0	0	0	0	18		48
MEXICO	330	55	93	3068	4521	1161	2745	2270	734	6563	9050	3782	10066	14588	3624
NICARAGUA	1	0	0	52	44	4	95	7	3	443	157	0	723	1734	241
PANAMA	35	33	9	197	200	98	11	65	0	55	20	13	179	169	73
TRINIDAD	1	1	0	25	50	0	41	3	43	37	3	0	277	48	9
OTHER	13	0	0	18	35	35	23	136	21	15	12	4	119	30	3
NORTH AMERICA	**6882**	**4375**	**1539**	**46767**	**39174**	**22671**	**14874**	**15484**	**5974**	**18600**	**15615**	**8883**	**117995**	**112629**	**60261**
ARGENTINA	[illegible]	227	142	470	3682	2469	310	927	418	1267	1314	915	10461	9467	5097
BOLIVIA	0	0	11	278	344	90	388	3	1	0	405	106	774	2561	665
BRAZIL	3	786	9	1963	2957	510	2566	2878	3135	300	416	0	5505	9026	3309
CHILE	258	206	154	1975	1373	610	158	249	142	58	264	464	5939	4052	3221
COLOMBIA	5	170	1	1656	1745	175	925	748	542	3803	2832	938	9029	7454	3481
ECUADOR	364	321	125	1863	1906	1172	714	968	500	1538	1930	486	10311	8395	4608
GUYANA	5	0	0	0	135	0	0	0		0	0	0	4	43	0
PARAGUAY	0	0	0	0		0	0	0	0	0	0	472	59	170	142
PERU	5	40	0	654	4252	791	43	681	36	874	788	0	1139	2588	1909
URUGUAY	18	23	0	239	204	64	72	108	26	130	1519	33	1907	2342	723
VENEZUELA	1737	353	0	999	3036	1860	1291	1902	457	16563	10871	6134	756	1731	429
OTHER	0	0	0	4	5	2	0	0		4	0	0		0	0
SOUTH AMERICA	**2399**	**2134**	**442**	**10101**	**19637**	**7763**	**6467**	**8464**	**5257**	**24537**	**20339**	**9548**	**45884**	**47829**	**23584**
BELGIUM LUXEMBOURG	9474	8529	6188	9141	22419	8600	21291	21280	11202	1031	136	270	26405	21196	9501
DENMARK	18		1	2032	484	78	665	142	89	16	24	2	8521	12056	4744
FRANCE	94	34	0	2856	2919	408	1062	1094	345	302	371	109	2301	1877	687
GERMANY FED REP OF	167	39	42	6185	3204	597	3261	4362	630	538	976	109	12846	8390	474
IRELAND	0	0	0	6560	6011	3704	196	339	197	0	2	7	1531	813	347
ITALY	685	67	1	6160	2622	579	2689	1133	178	288	190	76	32764	10888	678
NETHERLANDS	55	5	0	840	1279	169	264	781	205	122	276	43	8410	7863	1010
UNITED KINGDOM	234	48	53	19368	23758	4878	7919	5659	3188	575	506	173	28368	17872	2431
SUBTOTAL EEC	**10727**	**8731**	**6285**	**53742**	**62696**	**19013**	**37377**	**34790**	**16034**	**2872**	**2481**	**789**	**121146**	**80955**	**19872**
AUSTRIA	4	0	1	1154	664	123	192	164	8	5	6	120	39	1	0
CZECHOSLOVAKIA	0	125	120	0	1	0	190	105		0	0	0	0	0	0
FINLAND	104	851	0	1038	1937	1787	94	739	1	38	40	0	2591	2424	635
GERMAN DEM REP	0	0	0	0	11	24	404	245	0	0	9	0	51	39	204
GREECE	18	19	17	265	13	30	357	228	67	13	82	0	3601	1650	343
ICELAND	0	4	1	20	164	0	0	90	0	0	0	0	445	4	4
NORWAY	0	0	0	1184	1353	435	0	30	2	37	71	20	734	573	283
POLAND	817	485	35	4409	963	31	2861	4179	218	0	0	0	4735	3873	329
PORTUGAL	0	0	2	43	232	36	859	89	3	0	20	0	1998	915	36
ROMANIA	0	0	0	0	0	0	0	0		31	0	0	71	566	0
SPAIN	2	2	75	1673	1310	367	2492	2045	788	125	85	20	6305	5683	716
SWEDEN	74	6	4	1554	617	73	959	1810	206	55	106	10	4038	3015	681
SWITZERLAND	40	97	1	1149	1071	52	60	32	11	5	60	6	2495	1955	1064
TURKEY	0	0	0	0	1	220	10066	15918	6965	0	0	0	1498	1334	
USSR	3019	1476	1120	249	578	0		0	1	0	95	0	5164	2313	2
YUGOSLAVIA	0	0	0	29	0	931	7	1422	706	1080	0	0	406	674	529
OTHER	0	0	0	0	5	0	24			0	0	0	2	0	0
EUROPE	**14803**	**11776**	**7681**	**66519**	**71554**	**23122**	**55942**	**61886**	**25010**	**4261**	**3055**	**965**	**155319**	**105974**	**24698**

Table continues on page 157 opposite

U.S. IMPORTS, EXPORTS & BALANCE

The table on page 153 is compiled from export and import data released by the U.S. Census Bureau and the Department of Agriculture. Much of the data is reported in units other than pounds (e.g., dollars, dozens, yards, etc.) and is then converted to a poundage basis by the USDA, using conversion factors that they have developed.

For the first six months of 1981, the United States had a man-made fiber export balance of 654,633 thousand pounds, an 8½% increase over the 603,241 thousand pound export balance accrued over the first six months of 1980. Annualized, this would result in an export balance of some 1.3 billion pounds as compared with 1.2 billion pounds in 1980.

However, the U.S. export balance of man-made fiber manufactures for the first six months of 1981,

SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION *(Continued)*

THOUSAND POUNDS

COUNTRY	A CELLULOSIC YARN, MONO & STRIPS			B NON-CELLULOSIC TEXTILE YARN			C N.C. INDUSTRIAL YARN, MONO & STRIPS			D CELLULOSIC STAPLE+TOW			E NON-CELLULOSIC STAPLE+TOW		
	1979	1980	6 MOS. 1981	1979	1980	6 MOS. 1981	1979	1980	6 MOS. 1981	1979	1980	6 MOS. 1981	1979	1980	6 MOS. 1981
AUSTRALIA	1391	1596	920	4789	7848	7089	3517	1863	801	654	779	168	20786	17481	10113
BANGLADESH	0	0	0	134	84	381	256	0	16	0	0	0	0	0	0
CHINA, PEOPLE'S REP. OF	0	2573	2679	22205	52210	72522	219	9055	4692	0	10	2	131743	314004	210868
HONG KONG	0	39	0	71	823	14947	583	345	120	8175	7397	2614	26369	19133	10935
INDIA	9	0	0	468	3644	8076	1319	1055	730	413	2720	25	2380	1784	198
INDONESIA	0	0	0	1163	120	118	109	161	47	7386	3959	3002	918	1620	1572
IRAN	131	0	0	0	0	0	447	0	0	29	0	0	304	0	0
IRAQ	0	0	0	0	79	0	337	0		0	0	0	0	0	0
ISRAEL	94	57	42	3305	6614	2000	10658	6654	4655	46	108	38	2267	2133	729
JAPAN	137	75	80	4736	2806	2487	5571	10700	7883	669	706	860	28385	10681	5497
JORDAN	0	0	0	40	168	319	80	11	0	0	0	0	25	2	
KOREA, REP. OF	1561	1818	419	1931	610	1818	714	568	308	3945	922	2830	21916	2517	2076
LEBANON	0	0	0	368	457	150	8	42	0	89	0	2	8	108	72
MALAYSIA	28	152	40	0	0	0	12	89	7	367	113	0	334	1527	786
NEW GUINEA	0	0	0	0	0	0	0	0	0	0	0	0	119	109	0
NEW ZEALAND	25	24	10	337	586	597	171	183	178	241	1	48	1454	2525	525
PAKISTAN	0	0	0	71	10	128	44	1	1	18	159	93	13344	352	134
PHILIPPINES	297	108	7	722	358	352	5074	286	76	24386	11652	2120	7780	10164	2252
SAUDI ARABIA	0	2	0	24	7	137	28	253	113	17	0	0	69	2	66
SINGAPORE	0	26	10	15	20	0	6	65	11	1	113	345	301	524	273
SRI LANKA	3	2	0	46	0	2	1	0	0	0		0	519	0	0
SYRIA	267	0	0	1615	1044	518	20	66	40	28	0	0	0	13	0
TAIWAN	6	6	0	479	676	521	3340	2705	2294	10591	585	278	39922	36513	22068
THAILAND	76	158	79	66	3	0	187	93	75	1576	288	0	323	1634	1224
OTHER	0	2	0	1	47	0	20	163		6	0	0	52	106	33
ASIA & OCEANIA	**4025**	**6638**	**4286**	**42584**	**78214**	**112162**	**32721**	**34358**	**22047**	**58637**	**29512**	**12425**	**299318**	**422932**	**270021**
ALGERIA	0	0	0	2804	5255	0	0	26	0	0	530	0	1	0	0
BOTSWANA	0	0	0	255	0	0	0	0	0	0	0	0	1443	0	0
EGYPT	0	0	0	1296	3573	3244	1947	2705	927	0	0	0	2590	2919	26
KENYA	0	0	0	0	191	0	2	3	1	3	21	22	0	132	241
MOROCCO	1043	644	79	760	516	246	296	1553	50	2	245	8	5326	4270	45
MOZAMBIQUE	0	0	0	0	608	249		0	0	0	0	0	0	0	0
NIGERIA	0	38	0	3968	6179	1184	81	91	65	0	0	0	549	2355	25
SOUTH AFRICA	1636	1324	382	1848	2786	2780	1240	2804	945	310	1755	343	29644	33254	15049
TUNISIA	0	0	0	115	102	0	0	0	0	0	0	0	15	20	5
ZAIRE	0	0	0	77	138	0	0	0	0	0	0	0	0	0	0
ZIMBABWE	0	0	0	0	2	1	0	2		0	0	0	0	2	461
OTHER	3	0	0	153	6	46	4	12	44	157	0	0	251	158	87
AFRICA	**2682**	**2006**	**461**	**11276**	**19356**	**7750**	**3570**	**7196**	**2032**	**472**	**2551**	**373**	**39819**	**43110**	**15939**
GRAND TOTAL	**30791**	**26929**	**14409**	**177247**	**227935**	**173468**	**113574**	**127388**	**60320**	**106507**	**71072**	**32194**	**658335**	**732474**	**394503**

The commodity numbers are:
A. 309.0110, .2210, 310.0006 & .0026
B. 310.0008, .0009, .0010, .0014, .0029, .0034, .0040 & .0044
C. 309.0120, .0140, .0170, .2220, .2270, 310.0027 & .0032
D. 309.4219 & .4222
E. 309.3220, .3240, .3250, .3255, .4240, .4242, .4245, .4246 & .4247

totaling 65,208 million pounds, declined 48% from the first half 1980 export balance of 124,940 million pounds for these products. This decline resulted from a 13% increase in imports of manufactured products and a 6½% decrease in exports of these products during the first six months of 1981 as compared with the corresponding 1980 period. On an annual basis, this would result in a 1981 export balance of man-made fiber manufactures of some 130 million pounds. This compares with a 1980 export balance of 230.9 million pounds for man-made fiber manufactures.

Thus, the total export balance of man-made fiber and manufactures for the first half of 1981 totaled 719,841 thousand pounds, as compared with 728,181 thousand pounds for the first six months of 1980. On an annual basis, the U.S. export balance for man-made fiber and manufactures would total some 1.45 billion pounds, about the same as the 1980 total.

Imports of cotton manufactures for the first six months of 1981 totaled 468,532 thousand pounds, an increase of 13% over the corresponding 1980 period. For the first six months of 1981, exports of cotton manufactures declined 25% to 208,731 thousand pounds from the 280,720 thousand pounds exported during the first half of 1980. Thus, the import balance for cotton manufactures totaled 259,801 thousand pounds for the first six months of 1981. This is almost as high as the 287,836 thousand pound import balance for the ***year*** 1980 in total. On an annualized basis, an import balance of some 500 million pounds would be expected.

Imports of wool manufactures for the first half of 1981 totaled 52,755 thousand pounds, 6½% above the 49,596 imported during the corresponding 1980 period.

13

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1 - 1 - 78	1981 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	7 MONTHS 1981	1980
RAYON+ACETATE												
YARN SINGLES												
TEXTURED	310.0106 & .0206	1	10	0	232	4	0	9			266	808
OTHER	310.0130 & .0230[a]	1182	1139	1084	339	1370	600	712			6426	4300
MONOFILAMENTS	309.0510 & .0610	1	2	0	0	0	0	0			3	0
STRIPS $1 LB & UNDER	309.2000 *	0	0	0	0		0	5			5	0
SUBTOTAL ABOVE		**1184**	**1151**	**1084**	**581**	**1374**	**600**	**726**			**6700**	**5108**
STAPLE	309.4320 & .4325	1627	1006	927	887	1442	990	1311			8190	3951
GROUPED FILAMENTS	309.3010 & .3110	239	133	64	185	232	263	351			1467	1396
SUBTOTAL ABOVE		**1866**	**1139**	**991**	**1072**	**1674**	**1253**	**1662**			**9657**	**5347**
WASTE ADVANCED & NOT ADVANCED	309.6615 & .7510	37	7	37	0	35	40	65			221	191
NON-CELLULOSIC FIBERS												
YARN SINGLES												
TEXTURED NYLON	310.0109 & .0209	197	217	215	586	507	375	471			2568	494
POLYESTER	310.0110 & .0210	27	7	22	13	79	80	1			229	293
OTHER	310.0114 & .0214	17	56	8	17	49	23	85			255	166
OTHER NYLON	310.0140 & .0240	204	525	127	542	487	354	317			2556	2424
POLYESTER	310.0150 & .0250	111	411	299	399	482	491	293			2486	4037
OTHER	310.0170 & .0270[b]	170	183	113	188	164	56	182			1056	887
MONOFILAMENTS	309.0200 & .0330[c]	145	200	149	321	258	220	458			1751	2989
STRIPS OVER $1 LB	309.2100 & .2500 *	21	11	16	21	9	15	11			104	156
SUBTOTAL ABOVE		**892**	**1610**	**949**	**2087**	**2035**	**1614**	**1818**			**11005**	**11446**
STAPLE NYLON	309.4338	525	2686	1698	2533	2455	1574	4055			15526	884
POLYESTER	309.4342	132	111	306	661	847	363	328			2748	844
ACRYLIC	309.4345	1069	1594	907	1201	1005	565	736			7077	8960
OLEFIN	309.4340	5	0	304	1	5	71	474			860	73
OTHER	309.4355	469	961	673	1088	852	1281	356			5680	8297
GROUPED FILAMENTS												
NYLON	309.3030 & .3130	68	50	68	137	155	196	500			1174	625
POLYESTER	309.3040 & .3140	0	42	0	0	44	90	18			194	117
ACRYLIC	309.3050 & .3150	181	255	178	291	195	312	372			1784	1907
OTHER	309.3065 & .3165	65	116	302	166	156	186	342			1333	470
SUBTOTAL ABOVE		**2514**	**5815**	**4436**	**6078**	**5714**	**4638**	**7181**			**36376**	**22177**
WASTE NOT ADVANCED NYLON	309.6625	1598	1587	2822	1713	2134	1607	2239			13700	7802
POLYESTER	309.6630	1071	1810	1547	1005	1473	1321	1438			9665	2256
ACRYLIC	309.6645	289	258	200	236	379	269	87			1718	1442
OTHER	309.6660	32	203	263	328	127	331	196			1480	581
NOILS & GARNETTED FIBERS	309.6000 & .7000 *	0	0	0	0	0	0	29			29	4
OTHER WASTE ADVANCED	309.7525 - .7555	119	63	3	35	2	6	23			251	427
TOTAL MAN-MADE ABOVE		**9602**	**13643**	**12332**	**13135**	**14947**	**11679**	**15464**			**90802**	**56781**
OTHER MAN-MADE FIBER TOPS, YARN & THREAD												
YARN PLIED												
TEXTURED CELLULOSIC	310.1106	0		24	0	0	0	0			24	0
NON CELLULOSIC	310.1015[d] & .1109[e]	268	124	213	313	364	265	342			1889	758
OTHER CELLULOSIC	310.1030 & .1135[f]	16		0		0	0	0			16	97
NON CELLULOSIC	310.1050 & .1070[g]	20	27	26	44	20	4	125			266	307
SPUN YARN CELLULOSIC	310.4005 & .4030[h]	10	25	24	52	37	24	93			265	449
OTHER	310.4015 & .4027[i]	1762	1454	1794	1740	2164	1312	1542			11768	12827
OTHER YARNS NES INCL CHENILLE	310.6029 - .8000	352	109	261	415	609	433	361			2540	1571
HANDWORK YARNS & SEWING THREAD	310.9000 - .9140	247	230	188	190	262	292	226			1635	1320
SLIVER, TOPS & ROVING	309.9000	388	473	322	262	173	245	370			2233	1973
TEXTILE GLASS FIBER	309.2800 & .2900[j]	1156	441	1047	551	643	1485	1575			6898	4543
GRAND TOTAL ABOVE		**13821**	**16526**	**16231**	**16702**	**19219**	**15739**	**20098**			**118336**	**80626**

SOURCE: U.S.Census Bureau.

NES Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. non cellulosic. Any separation between cellulosic and non cellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & .0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1110 & .1114.

f. Also includes 310.2010 & .2110.

g. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Chiefly roving. Also includes 309.9800 & .9900.

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN

THOUSAND POUNDS

ITEM	1981 JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	7 MONTHS 1981	1980
RAYON+ACETATE YARN, MONOFIL & STRIPS											
CANADA	318	125	8	1	12	5	0			469	266
MEXICO	161	79	163	41	191	166	81			882	938
BELGIUM	0	50	25	0	76	0	23			174	0
WEST GERMANY	242	290	555	200	639	179	115			2220	692
NETHERLANDS	236	593	333	293	262	194	372			2283	889
SPAIN	142	0	0	0	41	0	40			223	0
UNITED KINGDOM	1	10	0	6	41	0	90			148	1490
JAPAN	64	0	0	0	33	36	0			133	544
SOUTH KOREA	1	0	0	40	40	0	0			81	80
ALL OTHER COUNTRIES[a]	19	4	0	0	39	20	5			87	209
TOTAL R+A YARN	**1184**	**1151**	**1084**	**581**	**1374**	**600**	**726**			**6700**	**5108**
RAYON+ACETATE STAPLE+TOW											
CANADA	469	474	436	451	421	392	411			3054	734
AUSTRIA	731	113	166	303	768	250	463			2794	566
FRANCE	18	83	39	43	0	45	0			228	57
WEST GERMANY	0	0	85	0	0	0	0			85	106
ITALY	0	12	0	0	36	16	105			169	0
SWEDEN	332	234	184	0	187	227	227			1391	2145
UNITED KINGDOM	226	76	7	157	203	235	349			1253	1135
JAPAN	90	147	74	118	59	88	105			681	554
ALL OTHER COUNTRIES[b]	0	0	0	0	0	0	2			2	50
TOTAL R+A STAPLE	**1866**	**1139**	**991**	**1072**	**1674**	**1253**	**1662**			**9657**	**5347**
NON-CELLULOSIC YARN, MONOFIL & STRIPS											
CANADA	50	98	4	579	415	280	389			1815	776
MEXICO	14	20	12	15	44	9	3			117	8
FRANCE	94	130	203	210	166	109	235			1147	347
WEST GERMANY	256	382	275	501	426	353	320			2513	2040
ITALY	52	152	35	0	108	79	0			426	69
UNITED KINGDOM	57	114	37	3	5	1	4			221	263
JAPAN	300	671	357	776	662	743	773			4282	7217
SOUTH KOREA	5	36	3	3	43	2	1			93	9
ALL OTHER COUNTRIES[c]	64	7	23	0	166	38	93			391	717
TOTAL N.C. YARN	**892**	**1610**	**949**	**2087**	**2035**	**1614**	**1818**			**11005**	**11446**
NON-CELLULOSIC STAPLE+TOW											
CANADA	328	350	449	531	714	425	1250			4047	1652
MEXICO	190	28	97	510	693	217	141			1876	24
BELGIUM	0	130	0	152	70	2	5			359	2
FRANCE	44	797	198	508	533	254	528			2862	23
WEST GERMANY	541	1963	1625	2233	1644	1345	2386			11737	6676
ITALY	7	813	616	423	717	164	1426			4166	890
NETHERLANDS	0	39	44	80	35	15	15			228	4
POLAND	44	38	0	0	89	0	0			171	53
ROMANIA	0	0	132	84	28	0	23			267	454
UNITED KINGDOM	208	508	320	173	264	818	713			3004	1564
JAPAN	828	335	367	493	343	478	434			3278	3980
TAIWAN	324	745	588	875	583	866	198			4179	6743
ALL OTHER COUNTRIES[d]	0	69	0	16	1	54	62			202	112
TOTAL N.C. STAPLE	**2514**	**5815**	**4436**	**6078**	**5714**	**4638**	**7181**			**36376**	**22177**

Other countries supplying 1981 poundages are:

a. Austria 41, Greece 39, Sweden 2 & Taiwan 5.

b. Mexico 1 & Venezuela 1.

c. Australia 1, Austria 105, Belgium 1, Denmark 45, Hong Kong 2, Netherlands 87, Portugal 8, Spain 61, Sweden 10, Switzerland 68 & Taiwan 3.

d. Brazil 1, Costa Rica 40, Hong Kong 12, Ireland 95, Israel 5, Portugal 13, South Africa 23 & Switzerland 13.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1981									YEAR TO DATE[a]	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	1981	1980
	TOTAL SHIPMENTS[b]										
MAN-MADE FIBER DATA[c]											
YARN+MONOFILAMENTS[d]											
ACETATE	**20.9**	**21.6**	**21.5**	**27.1**	**26.4**	**25.2**	**24.6**	**19.9**		**187.2**	**210.7**
NYLON[e] INDUSTRIAL[f]	34.5	34.4	37.2	35.9	32.3	34.3	31.5	36.5		276.6	289.7
LOW DENIER INDUSTRIAL[g]	3.0	3.0	3.8	2.8	2.3	3.3	2.5	2.9		23.6	23.7
CARPET	67.1	63.8	65.3	73.4	65.3	61.3	55.9	52.1		504.2	468.3
TEXTILE	33.7	36.6	38.4	37.3	36.1	37.3	31.7	34.8		285.9	293.2
POLYESTER INDUSTRIAL[f]	25.5	24.3	27.3	29.0	24.7	25.5	26.9	27.3		210.5	186.9
LOW DENIER INDUSTRIAL[g]	2.1	2.1	2.5	2.9	2.7	2.5	2.5	1.9		19.2	20.3
TEXTILE	94.8	96.0	111.3	123.6	106.4	108.6	102.1	107.3		850.1	772.2
OLEFIN[h]	56.0	55.8	57.4	55.5	56.8	52.0	53.0	53.7		440.2	413.2
TOTAL NON-CELLULOSIC ABOVE[i]	**316.7**	**316.0**	**343.2**	**360.4**	**326.6**	**324.8**	**306.1**	**316.5**		**2610.3**	**2467.5**
STAPLE+TOW+FIBERFILL[j]											
RAYON	**40.9**	**35.4**	**37.9**	**41.4**	**40.8**	**37.5**	**39.4**	**36.9**		**310.2**	**305.2**
NYLON[e]	70.7	67.5	73.9	80.0	74.8	69.2	62.2	52.8		551.1	439.8
ACRYLIC+MODACRYLIC	59.3	62.2	63.8	65.3	61.9	60.1	51.9	59.8		484.3	525.5
POLYESTER	208.6	211.1	202.5	243.6	218.6	211.9	212.8	232.9		1742.0	1628.6
OLEFIN+VINYON	10.8	10.3	11.2	11.7	12.4	11.7	10.7	11.3		90.1	75.4
TOTAL NON-CELLULOSIC ABOVE	**349.4**	**351.1**	**351.4**	**400.6**	**367.7**	**352.9**	**337.6**	**356.8**		**2867.5**	**2669.3**
	END-OF-MONTH STOCK										
YARN+MONOFILAMENTS											
ACETATE	**17.0**	**15.4**	**15.8**	**13.5**	**11.6**	**12.1**	**11.4**	**13.7**		**13.7**	**14.5**
NYLON[e] INDUSTRIAL[f]	37.5	37.9	35.7	36.7	42.5	41.2	43.8	38.3		38.3	31.7
LOW DENIER INDUSTRIAL[g]	3.9	3.2	3.1	3.5	3.4	3.2	3.6	3.8		3.8	3.3
CARPET	37.7	38.2	38.3	33.4	36.4	39.5	47.9	64.9		64.9	48.2
TEXTILE	42.8	43.1	41.8	41.7	43.6	41.4	45.1	44.5		44.5	53.8
POLYESTER INDUSTRIAL[f]	23.7	23.1	21.3	20.9	23.7	24.7	24.1	22.7		22.7	27.4
LOW DENIER INDUSTRIAL[g]	3.6	3.4	3.5	3.6	3.3	3.6	3.6	3.3		3.3	3.7
TEXTILE	100.2	104.1	87.3	67.5	72.5	76.0	89.4	84.1		84.1	86.3
OLEFIN[h]	63.9	62.3	61.6	60.4	58.3	62.3	61.8	62.2		62.2	73.5
TOTAL NON-CELLULOSIC ABOVE[i]	**313.3**	**315.3**	**292.6**	**267.7**	**283.7**	**291.9**	**319.3**	**323.8**		**323.8**	**327.9**
STAPLE+TOW+FIBERFILL											
RAYON	**24.2**	**25.1**	**29.3**	**28.1**	**25.4**	**23.7**	**23.2**	**25.6**		**25.6**	**34.4**
NYLON[e]	33.3	37.4	37.3	33.4	40.1	48.5	61.0	71.8		71.8	47.7
ACRYLIC+MODACRYLIC	76.5	76.3	74.3	68.5	67.1	63.8	67.8	64.2		64.2	57.8
POLYESTER	174.2	182.3	190.3	178.5	181.7	185.1	195.4	177.4		177.4	163.3
OLEFIN+VINYON	16.6	16.9	16.2	15.3	15.2	15.5	16.7	17.9		17.9	22.5
TOTAL NON-CELLULOSIC ABOVE	**300.6**	**312.9**	**318.1**	**295.7**	**304.1**	**312.9**	**340.9**	**331.3**		**331.3**	**291.3**
WOOL & COTTON CONSUMPTION											
APPAREL CLASS WOOL	11.0	12.1	14.6	13.2	11.5	12.9				75.3	74.5
CARPET CLASS WOOL	0.8	0.8	0.9	0.8	0.8	0.9				5.0	5.5
TOTAL RAW WOOL	11.8	12.9	15.5	14.0	12.3	13.8				80.3	80.0
RAW COTTON	217.4	245.4	247.1	238.1	220.8	236.1	193.1	224.4		1822.4	2038.3

a. Year-to-date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February issue for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 21 of the February issue.